GW - 032

MONITORING REPORTS

2010 - Present

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, March 22, 2011

Thurman B. Larsen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: BZ Strippers

Order No.: 1103780

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 3/21/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103780	**Collection Date:**	3/17/2011 9:00:00 PM
Project:	BZ Strippers	**Date Received:**	3/21/2011
Lab ID:	1103780-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/21/2011 11:12:34 PM
Benzene	62	50		µg/L	50	3/21/2011 11:12:34 PM
Toluene	110	50		µg/L	50	3/21/2011 11:12:34 PM
Ethylbenzene	ND	50		µg/L	50	3/21/2011 11:12:34 PM
Xylenes, Total	ND	100		µg/L	50	3/21/2011 11:12:34 PM
Surr: 4-Bromofluorobenzene	105	96.8-145		%REC	50	3/21/2011 11:12:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103780	**Collection Date:**	3/18/2011 8:00:00 AM
Project:	BZ Strippers	**Date Received:**	3/21/2011
Lab ID:	1103780-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/21/2011 11:41:29 PM
Benzene	ND	50		µg/L	50	3/21/2011 11:41:29 PM
Toluene	ND	50		µg/L	50	3/21/2011 11:41:29 PM
Ethylbenzene	ND	50		µg/L	50	3/21/2011 11:41:29 PM
Xylenes, Total	ND	100		µg/L	50	3/21/2011 11:41:29 PM
Surr: 4-Bromofluorobenzene	104	96.8-145		%REC	50	3/21/2011 11:41:29 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
NC	Non-Chlorinated
PQL	Practical Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103780	**Collection Date:**	3/19/2011 8:00:00 AM
Project:	BZ Strippers	**Date Received:**	3/21/2011
Lab ID:	1103780-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/22/2011 12:10:34 AM
Benzene	ND	50		µg/L	50	3/22/2011 12:10:34 AM
Toluene	120	50		µg/L	50	3/22/2011 12:10:34 AM
Ethylbenzene	ND	50		µg/L	50	3/22/2011 12:10:34 AM
Xylenes, Total	130	100		µg/L	50	3/22/2011 12:10:34 AM
Surr: 4-Bromofluorobenzene	105	96.8-145		%REC	50	3/22/2011 12:10:34 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103780	**Collection Date:**	3/20/2011 8:00:00 AM
Project:	BZ Strippers	**Date Received:**	3/21/2011
Lab ID:	1103780-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/22/2011 12:39:33 AM
Benzene	63	50		µg/L	50	3/22/2011 12:39:33 AM
Toluene	110	50		µg/L	50	3/22/2011 12:39:33 AM
Ethylbenzene	ND	50		µg/L	50	3/22/2011 12:39:33 AM
Xylenes, Total	ND	100		µg/L	50	3/22/2011 12:39:33 AM
Surr: 4-Bromofluorobenzene	107	96.8-145		%REC	50	3/22/2011 12:39:33 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Mar-11*

CLIENT:	*Western Refining Southwest, Gallup*	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103780	**Collection Date:**	3/21/2011 8:00:00 AM
Project:	BZ Strippers	**Date Received:**	3/21/2011
Lab ID:	1103780-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/22/2011 1:08:34 AM
Benzene	65	50		µg/L	50	3/22/2011 1:08:34 AM
Toluene	150	50		µg/L	50	3/22/2011 1:08:34 AM
Ethylbenzene	ND	50		µg/L	50	3/22/2011 1:08:34 AM
Xylenes, Total	100	100		µg/L	50	3/22/2011 1:08:34 AM
Surr: 4-Bromofluorobenzene	105	96.8-145		%REC	50	3/22/2011 1:08:34 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: BZ Strippers **Work Order:** 1103780

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R44248**	Analysis Date:		3/21/2011 8:20:09 AM	
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R44248**	Analysis Date:		3/21/2011 7:20:37 PM	
Methyl tert-butyl ether (MTBE)	18.29	µg/L	2.5	20	0	91.5	97.6	132			S
Benzene	20.14	µg/L	1.0	20	0.1692	99.8	93.4	120			
Toluene	21.34	µg/L	1.0	20	0.137	106	96.2	122			
Ethylbenzene	21.22	µg/L	1.0	20	0	106	95	121			
Xylenes, Total	64.41	µg/L	2.0	60	0	107	97.6	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **3/21/2011**

Work Order Number **1103780** Received by: **AMG**

Checklist completed by: Signature 3/21/11 Date Sample ID labels checked by: Initials

Matrix: Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**2.8°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN – Refining Gallup Refinery

Mailing Address: RT 3 Box 7 Gallup NM 87301

Phone #: 505 722 3833

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other

☐ EDD (Type)

Turn-Around Time: No charge

☐ Standard ☒ Rush

Project Name: BZ Strippers

Project #: BZ API-OUT

Project Manager: Thurman Larsen

Sampler: API-JRO, EH

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.5°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1103180	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 B BTEX-MTBE				Air Bubbles (Y or N)
3-17-11	9:00 PM	H20	BZ 1-2 OUT	40ml-3	HCl	1												X				
3-18-11	8:00 AM	H20	BZ 1-2 OUT	40ml-3	HCl	2												X				
3-19-11	8:00 AM	H20	BZ 1-2 OUT	40ml-3	HCl	3												X				
3-20-11	8:00 AM	H20	BZ 1-2 OUT	40ml-3	HCl	4												X				
3-21-11	8:00 AM	H20	BZ 1-2 OUT	40ml-3	HCl	5												X				

Date	Time	Relinquished by:	Received by:	Date	Time
3-21-11	12:05			3/21/11	1202
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: BZ 1-2 OUT

Also CC: Hope Monzeglio

Kristin Van Horn

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, March 22, 2011

Thurman B. Larsen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: BZ Strippers

Order No.: 1103742

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 3/18/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103742	**Collection Date:**	3/15/2011 8:00:00 AM
Project:	BZ Strippers	**Date Received:**	3/18/2011
Lab ID:	1103742-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/21/2011 5:53:27 PM
Benzene	64	50		µg/L	50	3/21/2011 5:53:27 PM
Toluene	150	50		µg/L	50	3/21/2011 5:53:27 PM
Ethylbenzene	ND	50		µg/L	50	3/21/2011 5:53:27 PM
Xylenes, Total	110	100		µg/L	50	3/21/2011 5:53:27 PM
Surr: 4-Bromofluorobenzene	102	96.8-145		%REC	50	3/21/2011 5:53:27 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103742	**Collection Date:**	3/16/2011 8:00:00 AM
Project:	BZ Strippers	**Date Received:**	3/18/2011
Lab ID:	1103742-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/21/2011 10:14:37 PM
Benzene	73	50		µg/L	50	3/21/2011 10:14:37 PM
Toluene	140	50		µg/L	50	3/21/2011 10:14:37 PM
Ethylbenzene	ND	50		µg/L	50	3/21/2011 10:14:37 PM
Xylenes, Total	ND	100		µg/L	50	3/21/2011 10:14:37 PM
Surr: 4-Bromofluorobenzene	104	96.8-145		%REC	50	3/21/2011 10:14:37 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: BZ Strippers **Work Order:** 1103742

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R44248**	Analysis Date:	3/21/2011 8:20:09 AM		
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R44248**	Analysis Date:	3/21/2011 7:20:37 PM		
Methyl tert-butyl ether (MTBE)	18.29	µg/L	2.5	20	0	91.5	97.6	132			S
Benzene	20.14	µg/L	1.0	20	0.1692	99.8	93.4	120			
Toluene	21.34	µg/L	1.0	20	0.137	106	96.2	122			
Ethylbenzene	21.22	µg/L	1.0	20	0	106	95	121			
Xylenes, Total	64.41	µg/L	2.0	60	0	107	97.6	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU | Date Received: 3/18/2011

Work Order Number 1103742 | Received by: MMG

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature _____ Date

Matrix: | Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐		
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑		
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:	
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐		
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑		
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	<2 >12 unless noted below.	
Container/Temp Blank temperature?	3.9°	<6° C Acceptable If given sufficient time to cool.			

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN - REFINING
GALLUP REFINERY

Mailing Address: RT 3 BOX 7
GALLUP NM 87301

Phone #: 505 722 3833

email or Fax#: 505 722 0210

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time: NO CHARGE
☐ Standard ☒ Rush _____

Project Name: BZ STRIPPERS

Project #: BZ API-OUT

Project Manager: THURMAN LARSEN

Sampler: API OPS

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1103-742	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	9021B BTEX-MTBE				Air Bubbles (Y or N)
3-15-11	8/AM	H20	BZ 1-20UT	40ML-3	HCL	-1												X				
3-16-11	8/AM	H20	BZ 1-20UT	40ML-3	HCL	-2												X				

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
03-17-11	12:00			3/18/11	9:00
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: ALSO CC: HOPE MONZEQUO AND KRISTEN VANHORN

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

PCL XL error

Subsystem: STATE

Error: ColorSpaceMismatch

Operator: SetBrushSource

Position: 11

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, March 18, 2011

Thurman B. Larsen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: Benzene Strippers

Order No.: 1103372

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 3/9/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103372	**Collection Date:**	3/8/2011 11:00:00 AM
Project:	Benzene Strippers	**Date Received:**	3/9/2011
Lab ID:	1103372-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/14/2011 10:58:08 AM
Benzene	97	50		µg/L	50	3/10/2011 5:13:31 PM
Toluene	140	50		µg/L	50	3/10/2011 5:13:31 PM
Ethylbenzene	ND	50		µg/L	50	3/10/2011 5:13:31 PM
Xylenes, Total	ND	100		µg/L	50	3/10/2011 5:13:31 PM
Surr: 4-Bromofluorobenzene	105	96.8-145		%REC	50	3/10/2011 5:13:31 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103372	**Collection Date:**	3/9/2011 9:00:00 AM
Project:	Benzene Strippers	**Date Received:**	3/9/2011
Lab ID:	1103372-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/14/2011 11:28:17 AM
Benzene	77	50		µg/L	50	3/10/2011 5:42:12 PM
Toluene	140	50		µg/L	50	3/10/2011 5:42:12 PM
Ethylbenzene	ND	50		µg/L	50	3/10/2011 5:42:12 PM
Xylenes, Total	ND	100		µg/L	50	3/10/2011 5:42:12 PM
Surr: 4-Bromofluorobenzene	106	96.8-145		%REC	50	3/10/2011 5:42:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Mar-11*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BZ 1-2 OUT
Lab Order:	1103372	**Collection Date:**	3/7/2011 7:00:00 AM
Project:	Benzene Strippers	**Date Received:**	3/9/2011
Lab ID:	1103372-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/14/2011 11:58:18 AM
Benzene	93	50		µg/L	50	3/10/2011 6:10:50 PM
Toluene	140	50		µg/L	50	3/10/2011 6:10:50 PM
Ethylbenzene	ND	50		µg/L	50	3/10/2011 6:10:50 PM
Xylenes, Total	ND	100		µg/L	50	3/10/2011 6:10:50 PM
Surr: 4-Bromofluorobenzene	104	96.8-145		%REC	50	3/10/2011 6:10:50 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Benzene Strippers **Work Order:** 1103372

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R44059**	Analysis Date:		3/10/2011 10:01:55 AM	
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R44104**	Analysis Date:		3/14/2011 8:27:19 AM	
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R44059**	Analysis Date:		3/11/2011 4:13:41 AM	
Methyl tert-butyl ether (MTBE)	20.20	µg/L	2.5	20	0	101	97.6	132			
Benzene	19.51	µg/L	1.0	20	0	97.6	93.4	120			
Toluene	19.92	µg/L	1.0	20	0.1272	99.0	96.2	122			
Ethylbenzene	20.12	µg/L	1.0	20	0	101	95	121			
Xylenes, Total	60.92	µg/L	2.0	60	0	102	97.6	122			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R44104**	Analysis Date:		3/15/2011 1:59:25 AM	
Methyl tert-butyl ether (MTBE)	19.15	µg/L	2.5	20	0	95.8	97.6	132			S
Benzene	20.06	µg/L	1.0	20	0.128	99.7	93.4	120			
Toluene	20.19	µg/L	1.0	20	0.168	100	96.2	122			
Ethylbenzene	19.94	µg/L	1.0	20	0.14	99.0	95	121			
Xylenes, Total	61.55	µg/L	2.0	60	0	103	97.6	122			
Sample ID: 100NG BTEX LCSD		*LCSD*				Batch ID:	**R44059**	Analysis Date:		3/11/2011 4:42:27 AM	
Methyl tert-butyl ether (MTBE)	19.86	µg/L	2.5	20	0	99.3	97.6	132	1.69	10.6	
Benzene	18.88	µg/L	1.0	20	0	94.4	93.4	120	3.28	10.1	
Toluene	19.32	µg/L	1.0	20	0.1272	96.0	96.2	122	3.06	14.3	S
Ethylbenzene	19.07	µg/L	1.0	20	0	95.3	95	121	5.36	15.5	
Xylenes, Total	57.54	µg/L	2.0	60	0	95.9	97.6	122	5.71	10.4	S
Sample ID: 100NG BTEX LCSD		*LCSD*				Batch ID:	**R44104**	Analysis Date:		3/15/2011 2:29:19 AM	
Methyl tert-butyl ether (MTBE)	20.12	µg/L	2.5	20	0	101	97.6	132	4.90	10.6	
Benzene	19.89	µg/L	1.0	20	0.128	98.8	93.4	120	0.871	10.1	
Toluene	19.91	µg/L	1.0	20	0.168	98.7	96.2	122	1.40	14.3	
Ethylbenzene	19.85	µg/L	1.0	20	0.14	98.6	95	121	0.452	15.5	
Xylenes, Total	60.55	µg/L	2.0	60	0	101	97.6	122	1.64	10.4	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU | Date Received: 3/9/2011

Work Order Number 1103372 | Received by: MMG

Checklist completed by: _____ 3/9/11 | Sample ID labels checked by: _____

Signature | Date | Initials

Matrix: | Carrier name Client drop-off

Shipping container/cooler in good condition?		Yes ☑	No ☐	Not Present ☐			
Custody seals intact on shipping container/cooler?		Yes ☐	No ☐	Not Present ☐		Not Shipped ☑	
Custody seals intact on sample bottles?		Yes ☑	No ☐	N/A ☐			
Chain of custody present?		Yes ☑	No ☐				
Chain of custody signed when relinquished and received?		Yes ☑	No ☐				
Chain of custody agrees with sample labels?		Yes ☑	No ☐				
Samples in proper container/bottle?		Yes ☑	No ☐				
Sample containers intact?		Yes ☑	No ☐				
Sufficient sample volume for indicated test?		Yes ☑	No ☐				
All samples received within holding time?		Yes ☑	No ☐			Number of preserved bottles checked for pH:	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐		Yes ☑	No ☐			
Water - Preservation labels on bottle and cap match?		Yes ☑	No ☐	N/A ☐			
Water - pH acceptable upon receipt?		Yes ☐	No ☐	N/A ☑		*<2 >12 unless noted below.*	
Container/Temp Blank temperature?		**1.0°**	*<6° C Acceptable* If given sufficient time to cool.				

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN REFINING

GALLUP REFINERY

Mailing Address: RT 3 BOX 7

GALLUP N.M. 87301

Phone #: (505) 722-3833

email or Fax#: (505) 722-0210

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: NO CHARGE

☐ Standard ☑ Rush _____

Project Name: BZ STRIPPER

Project #: BZ API-OUT

Project Manager: THURMAN LARSON

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1105510	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 BTEX-MTBE			Air Bubbles (Y or N)
~~2-16-X~~	~~8AM~~	~~H2O~~	~~BZ BZ OUT X~~	~~40 ML-3~~	~~HCL AD~~													X			
3-8-11	11:00 AM	H20	BZ 1-2 OUT	40 ml-3	HCL	-1												X			
3-9-11	0900	H20	BZ 1-2 OUT	40 ml-3	HCL	-2												X			
3-7-11	7:00 AM	H20	BZ 1-2 OUT	40 ml-3	HCL	-3												X			

Date:	Time:	Relinquished by:	Received by:	Date	Time
3-9-11	0900	Ryan Lane		3-9-11	0900
3-9-11	1245			3/9/11	12:44

Remarks: ALSO CC: HOPE MONZEQLIO AND KRISTEN VANHORN

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chavez, Carl J, EMNRD

From: VanHorn, Kristen, NMENV
Sent: Thursday, February 17, 2011 12:10 PM
To: Johnson, Cheryl; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman
Subject: RE: Water in GWM 2 & 3 wells - Notification

Cheryl,
Please go out once a week and check the water levels (like last time) at GWM-3 and GWM-2 and send us the water level data until further notice. At this time you don't need to collect water for analysis, just for the water level. If you have any questions, please contact me.

Thanks,
Kristen

Kristen Van Horn
NMED Hazardous Waste Bureau
2905 Rodeo Park Drive East Building 1
Santa Fe, NM 87505
Phone: 505-476-6046

From: Johnson, Cheryl [mailto:Cheryl.Johnson@wnr.com]
Sent: Thursday, February 17, 2011 9:39 AM
To: VanHorn, Kristen, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman
Subject: Water in GWM 2 & 3 wells - Notification

Good Morning:

As required by the OCD discharge permit to report any presence of water, the following wells indicated the presence of water during quarterly inspections conducted on 2/16/11

GWM-3 – gauged on 2/16/11 at 1010 hours: DTW = 16.99 ft. DTB = 17.94 ft. Total water level = 0.95 feet. Well is located on the northwest corner of Evaporation Pond 1(EP1).
GWM-2 – gauged on 2/16/11 at 1000 hours: DTW = 17.48 ft. DTB = 18.97 ft. Total water level = 1.49 feet. Well is located on the northwest corner of Aeration Lagoon 2 (between AL2 and EP1)

Samples were collected from both of these wells for the following analysis: BTEX + MTBE, DRO/GRO extended, Major Cations and Anions. Results from sampling will be e-mailed upon receipt from Hall Laboratory.

Remaining water was hand bailed to the following levels. GWM-3 – Depth to water at end of bailing 17.84 ft with a water level of 0.1 ft; and GWM-2 = 18.83 ft. with a water level of 0.14 ft.

Please advise if further monitoring is required or additional information is needed. Thank you, cj

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
505 722 0231 Direct
505 722 0210 Fax
505 722 3833 Main
cheryl.johnson@wnr.com

Chavez, Carl J, EMNRD

From: Larsen, Thurman [Thurman.Larsen@wnr.com]
Sent: Thursday, February 03, 2011 4:40 PM
To: VanHorn, Kristen, NMENV; Monzeglio, Hope, NMENV; Cobrain, Dave, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Dorsey, Alvin; Johnson, Cheryl; Tso, Janice
Subject: MONTHLY BENZENE REPORT for JANUARY 2011
Attachments: 20110203161318033.pdf

Dear Kristen, Hope, et all;

The monthly flow data for January 2011 from the (N-S) Benzene Strippers to AL-1 is summarized as follows:

	North Stripper (gpm)	South Stripper (gpm)	Total Flow (gpm)
Average	**69.24**	**88.61**	**157.85**
Maximum	**218.84**	**292.44**	**511.28**
Minimum	**11.66**	**13.64**	**25.30**

The monthly flow data (January 2011) from AL-2 to EP-1 is summarized as follows:

	Weir Height (in)	Flow Rate (gpm)	Monthly Flow (gpd)
Average	**7.68**	**224.13**	**322740.26**
Maximum	**8.58**	**290.53**	**418359.76**
Minimum	**5.00**	**72.47**	**104357.65**

Benzene Stripper #3 is located in the process area. The monthly flow volume is determined as follows: The desalter effluent is routed through the stripper. The desalter effluent for January 2011 is 3.4% average of the crude charge rate. Therefore, the monthly flow for January 2011 has an average flow of 12.7 gpm, a maximum flow of 20.9 gpm, and a minimum flow of 2.8 gpm.

The above attachment is the monthly benzene results from Hall Environmental Laboratories for the month of January 2011.

Western Refining is continuing the daily sampling of benzene. Diversionary tank (T-35) was put into service on January 15 at 1430 hrs. Please note that a benzene sample was not collected on January 28 because due to foaming issues no flow was going through the North and South Benzene Strippers but instead was diverted to the newly constructed diversionary tank (T-35) until the problem was resolved. We had two benzene failures due to extreme cold weather and 6 benzene failures due to mechanical malfunctions (or maintenance issues) related to the benzene strippers.

If you should require any additional information, please contact me at the number listed below.

Sincerely,

Beck Larsen; CHMM, REM, RPG
Environmental Engineer

Western Refining Company- Gallup Refinery
Route 3, Box 7
Gallup, NM 87301
Office:(505) 722-0258
Fax: (505) 722-0210
Cell: (505) 862-1749
Email: thurman.larsen@wnr.com

BENZENE STRIPPER - API 1 & 2 OUTLET

Date Sample Taken	Hall Rec'd Temp 6° C (C°)	Hall Sample ID	Hall Environmental Lab Data Benzene Results (ppm)			Results in Compliance < 0.5 ppm Yes; FAILED >0.5
			Sample rec'd Temp <6° C Acceptable range	Results (ppb)	> 0.5 ppm	
Saturday, January 01, 2011	2.6	1101022	2.6	970.0	0.97	Failed
Sunday, January 02, 2011	2.6	1101022	2.6	1500.0	1.50	Failed
Monday, January 03, 2011	2.6	1101022	2.6	280.0	0.28	Yes
Tuesday, January 04, 2011	4.5	1101164	4.5	200.0	0.20	Yes
Wednesday, January 05, 2011	3.2	1101211	3.2	150.0	0.15	Yes
Thursday, January 06, 2011	3.2	1101211	3.2	81.0	0.08	Yes
Friday, January 07, 2011	1.3	1101265	1.3	220.0	0.22	Yes
Saturday, January 08, 2011	1.3	1101265	1.3	68.0	0.07	Yes
Sunday, January 09, 2011	1.3	1101265	1.3	140.0	0.14	Yes
Monday, January 10, 2011	1.3	1101265	1.3	80.0	0.08	Yes
Tuesday, January 11, 2011	4.7	1101376	4.7	200.0	0.20	Yes
Wednesday, January 12, 2011	2.2	1101433	2.2	22000.0	22.00	Failed
Thursday, January 13, 2011	2.2	1101433	2.2	310.0	0.31	Yes
Friday, January 14, 2011	4.4	1101468	4.4	78.0	0.08	Yes
Saturday, January 15, 2011	4.4	1101468	4.4	1100.0	1.10	Failed
Sunday, January 16, 2011	4.4	1101468	4.4	330.0	0.33	Yes
Monday, January 17, 2011	3.6	1101544	3.6	620.0	0.62	Failed
Monday, January 17, 2011	4.4	1101468	4.4	600.0	0.60	Failed
Tuesday, January 18, 2011	3.6	1101544	3.6	460.0	0.46	Yes
Wednesday, January 19, 2011	4.7	1101606	4.7	ND	0.00	Yes
Thursday, January 20, 2011	3.1	1101712	3.1	370.0	0.37	Yes
Friday, January 21, 2011	3.1	1101712	3.1	ND	0.00	Yes
Saturday, January 22, 2011	3.1	1101712	3.1	58.0	0.06	Yes
Sunday, January 23, 2011	3.1	1101712	3.1	ND	0.00	Yes
Monday, January 24, 2011	0.0	1101847	3.3	ND	0.00	Yes
Tuesday, January 25, 2011	0.0	1101847	3.3	ND	0.00	Yes
Wednesday, January 26, 2011	0.0	1101870	1.6	590.0	0.59	Failed
Thursday, January 27, 2011	0.0	1101870	1.6	570.0	0.57	Failed
Friday, January 28, 2011	0.0	None	N/A		0.00	Yes
Saturday, January 29, 2011	0.0	1109935	3.4	53.0	0.05	Yes
Sunday, January 30, 2011	0.0	1109935	3.4	62.0	0.06	Yes
Monday, January 31, 2011	0.0	1109935	3.4	ND	0.00	Yes

Chavez, Carl J, EMNRD

From: Cobrain, Dave, NMENV
Sent: Monday, July 12, 2010 3:26 PM
To: Ed Riege; ann.allen@wnr.com
Cc: Chavez, Carl J, EMNRD; Monzeglio, Hope, NMENV; Van Horn, Kristen, NMENV; Bearzi, James, NMENV; Kieling, John, NMENV
Subject: FW: Benzene Strippers - 1006989
Attachments: 1006989.pdf

Ed,

In accordance with NMED's March 24, 2010 and June 28, 2010 letters regarding effluent sampling, we expect that you have begun daily sampling of the discharge to the aeration lagoons since there were at least two days that the discharge limits were exceeded. NMED reminds Western that the results of such sampling must be reported to NMED within four days. NMED will review the results and adjust the sampling frequency as appropriate should Western demonstrate compliance for reasonable a period of time. Please call if you have questions.

Dave

Main HWB Phone: 505-476-6000
Direct Office Phone: 505-476-6055
Fax: 505-476-6030 or 505-476-6060

From: Vicki Brown [mailto:vickie@hallenvironmental.com]
Sent: Wednesday, July 07, 2010 8:56 AM
To: thurman.larsen@wnr.com
Cc: 'Dorsey, Alvin'; ed.riege@wnr.com; cheryl.johnson@wnr.com; 'Rajen, Gaurav'; Monzeglio, Hope, NMENV; Van Horn, Kristen, NMENV; Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; jim.lieb@wnr.com
Subject: Benzene Strippers - 1006989

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HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, July 06, 2010

Thurman B. Larsen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: Benzene Strippers

Order No.: 1006989

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 6/29/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *07-Jul-10*

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers
Lab Order: 1006989

Lab ID: 1006989-01 **Collection Date:** 6/24/2010 1:30:00 PM
Client Sample ID: BZ 1-2 OUT **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **HL**
Benzene	2800	200		µg/L	200	7/1/2010 2:08:52 PM
Toluene	13000	200		µg/L	200	7/1/2010 2:08:52 PM
Ethylbenzene	2500	200		µg/L	200	7/1/2010 2:08:52 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	7/1/2010 10:56:01 AM
Xylenes, Total	16000	400		µg/L	200	7/1/2010 2:08:52 PM
Surr: 1,2-Dichloroethane-d4	85.9	54.6-141		%REC	10	7/1/2010 10:56:01 AM
Surr: 4-Bromofluorobenzene	92.7	60.1-133		%REC	10	7/1/2010 10:56:01 AM
Surr: Dibromofluoromethane	104	78.5-130		%REC	10	7/1/2010 10:56:01 AM
Surr: Toluene-d8	108	79.5-126		%REC	10	7/1/2010 10:56:01 AM

Lab ID: 1006989-02 **Collection Date:** 6/25/2010 7:30:00 AM
Client Sample ID: BZ 1-2 OUT **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **HL**
Benzene	1600	200		µg/L	200	7/1/2010 2:36:25 PM
Toluene	10000	200		µg/L	200	7/1/2010 2:36:25 PM
Ethylbenzene	2700	200		µg/L	200	7/1/2010 2:36:25 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	7/1/2010 11:23:30 AM
Xylenes, Total	17000	400		µg/L	200	7/1/2010 2:36:25 PM
Surr: 1,2-Dichloroethane-d4	80.2	54.6-141		%REC	10	7/1/2010 11:23:30 AM
Surr: 4-Bromofluorobenzene	98.4	60.1-133		%REC	200	7/1/2010 2:36:25 PM
Surr: Dibromofluoromethane	116	78.5-130		%REC	10	7/1/2010 11:23:30 AM
Surr: Toluene-d8	121	79.5-126		%REC	10	7/1/2010 11:23:30 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Benzene Strippers **Work Order:** 1006989

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 5ml rb		*MBLK*				Batch ID: **R39595**		Analysis Date:	7/1/2010 9:04:47 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs		*LCS*				Batch ID: **R39595**		Analysis Date:	7/1/2010 10:00:59 AM		
Benzene	19.23	µg/L	1.0	20	0	96.2	82.4	116			
Toluene	21.45	µg/L	1.0	20	0	107	89.5	123			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/29/2010**

Work Order Number **1006989** Received by: **TLS**

Checklist completed by: _____ 6/29/10 Sample ID labels checked by: _____
Signature Date Initials

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**1.4°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN REFINING
Gallup Refinery
Mailing Address: RT 3 Box 9
Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 505 722 0210
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time: (NO CHARGE CHECK WITH ANDY)
☐ Standard ☒ Rush _____
Project Name: BZ STRIPPERS
Project #: BZ API-OUT
Project Manager: Thurman Larsen
Sampler: Alvin Dorsey
On Ice: ☒ Yes ☐ No
Sample Temperature: 1 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1000
06-24-10	01:30	H20	BZ 1-2 OUT	40ml-3	HCL	1
06-25-10	07:30	H20	BZ 1-2 OUT	40ml-3	HCL	2

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 B BETEX-MTBE				Air Bubbles (Y or N)
											X				
											X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
062810		Alvin Dorsey		6/29/10	945
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: NO Charge - Rush For BZ 1-2 OUT
Also CC Hope Monzeglio & Kristin Van Wonn (CHECK WITH ANDY)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chavez, Carl J, EMNRD

From: Johnson, Cheryl [Cheryl.Johnson@wnr.com]
Sent: Tuesday, July 06, 2010 8:43 AM
To: Van Horn, Kristen, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Lieb, Jim
Subject: Quarterly Analysis Results, Napis Effluent; EP1
Attachments: 2nd QTR Effluent.pdf

Good Morning: The following are the latest sampling results from Hall Labs for: NAPIS Effluent, and Evaporation Pond 1. The table below lists the analytes that exceeded the current standards and showed an increase from previous sampling events.

SAMPLE ID		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	TOTAL XYLENES (mg/L)	ANILINE (mg/L)	2,4 DIMETHYLPHENOL (mg/L)	MERCURY (mg/L)
	STANDARDS	**NMWQS 0.01**	**NMWQS 0.75**	**RRSL 0.0015**	**NMWQS 0.62**	**RRSL 0.012**	**RRSL 0.73**	**NMWQS 0.002**
NAPIS EFFLUENT		1.5	6	0.67	3.8			
EP 1							0.87	

Thank you, cj

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
505 722 0231 Direct
505 722 0210 Fax
505 722 3833 Main
cheryl.johnson@wnr.com

Safety starts with "S", but always begins with "You"

HALL
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COVER LETTER

Tuesday, July 06, 2010

Thurman B. Larsen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: Benzene Strippers

Order No.: 1006989

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 6/29/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *07-Jul-10*

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers
Lab Order: 1006989

Lab ID: 1006989-01
Collection Date: 6/24/2010 1:30:00 PM
Client Sample ID: BZ 1-2 OUT
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **HL**
Benzene	2800	200		µg/L	200	7/1/2010 2:08:52 PM
Toluene	13000	200		µg/L	200	7/1/2010 2:08:52 PM
Ethylbenzene	2500	200		µg/L	200	7/1/2010 2:08:52 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	7/1/2010 10:56:01 AM
Xylenes, Total	16000	400		µg/L	200	7/1/2010 2:08:52 PM
Surr: 1,2-Dichloroethane-d4	85.9	54.6-141		%REC	10	7/1/2010 10:56:01 AM
Surr: 4-Bromofluorobenzene	92.7	60.1-133		%REC	10	7/1/2010 10:56:01 AM
Surr: Dibromofluoromethane	104	78.5-130		%REC	10	7/1/2010 10:56:01 AM
Surr: Toluene-d8	108	79.5-126		%REC	10	7/1/2010 10:56:01 AM

Lab ID: 1006989-02
Collection Date: 6/25/2010 7:30:00 AM
Client Sample ID: BZ 1-2 OUT
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **HL**
Benzene	1600	200		µg/L	200	7/1/2010 2:36:25 PM
Toluene	10000	200		µg/L	200	7/1/2010 2:36:25 PM
Ethylbenzene	2700	200		µg/L	200	7/1/2010 2:36:25 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	7/1/2010 11:23:30 AM
Xylenes, Total	17000	400		µg/L	200	7/1/2010 2:36:25 PM
Surr: 1,2-Dichloroethane-d4	80.2	54.6-141		%REC	10	7/1/2010 11:23:30 AM
Surr: 4-Bromofluorobenzene	98.4	60.1-133		%REC	200	7/1/2010 2:36:25 PM
Surr: Dibromofluoromethane	116	78.5-130		%REC	10	7/1/2010 11:23:30 AM
Surr: Toluene-d8	121	79.5-126		%REC	10	7/1/2010 11:23:30 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Benzene Strippers **Work Order:** 1006989

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R39595**	Analysis Date:	7/1/2010 9:04:47 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R39595**	Analysis Date:	7/1/2010 10:00:59 AM		
Benzene	19.23	µg/L	1.0	20	0	96.2	82.4	116			
Toluene	21.45	µg/L	1.0	20	0	107	89.5	123			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/29/2010**

Work Order Number **1006989** Received by: **TLS**

Checklist completed by: _____ 6/29/10 Sample ID labels checked by: _____
Signature Date Initials

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	**1.4°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

_____

_____

_____

_____

Corrective Action _____

_____

_____

Chain-of-Custody Record

Client: WESTERN REFINING
Gallup Refinery
Mailing Address: RT 3 Box 9
Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 505 722 0210
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time: (NO CHARGE CHECK WITH ANDY)
☐ Standard ☒ Rush
Project Name: BZ STRIPPERS
Project #: BZ API-OUT
Project Manager: Thurman Larsen
Sampler: Alvin Dorsey
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1000948	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 B BTEX-MTBE				Air Bubbles (Y or N)
06-24-10	01:30	H20	BZ 1-2 OUT	40ML-3	HCL	1												X				
06-25-10	07:30	H20	BZ 1-2 OUT	40ML-3	HCL	2												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
06-28-10				6/29/10	945
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: NO CHARGE - RUSH FOR BZ 1-2 OUT
ALSO CC HOPE MONZEGO & KRISTIN VAN HONN (CHECK WITH ANDY)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
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ANALYSIS
LABORATORY

COVER LETTER

Tuesday, July 06, 2010

Thurman B. Larsen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: Benzene Strippers

Order No.: 1006A23

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 6/29/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Jul-10*

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers
Lab Order: 1006A23

Lab ID: 1006A23-01 **Collection Date:** 6/28/2010 3:40:00 PM
Client Sample ID: BZ 1-2 OUT **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	250	10		µg/L	10	7/1/2010 11:51:09 AM
Toluene	1000	200		µg/L	200	7/1/2010 1:13:46 PM
Ethylbenzene	250	10		µg/L	10	7/1/2010 11:51:09 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	7/1/2010 11:51:09 AM
Xylenes, Total	1700	20		µg/L	10	7/1/2010 11:51:09 AM
Surr: 1,2-Dichloroethane-d4	88.2	54.6-141		%REC	10	7/1/2010 11:51:09 AM
Surr: 4-Bromofluorobenzene	123	60.1-133		%REC	10	7/1/2010 11:51:09 AM
Surr: Dibromofluoromethane	96.9	78.5-130		%REC	10	7/1/2010 11:51:09 AM
Surr: Toluene-d8	106	79.5-126		%REC	10	7/1/2010 11:51:09 AM

Lab ID: 1006A23-02 **Collection Date:** 6/29/2010 8:00:00 AM
Client Sample ID: BZ 1-2 OUT **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	320	10		µg/L	10	7/1/2010 12:18:41 PM
Toluene	1100	200		µg/L	200	7/1/2010 1:41:20 PM
Ethylbenzene	240	10		µg/L	10	7/1/2010 12:18:41 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	7/1/2010 12:18:41 PM
Xylenes, Total	1600	20		µg/L	10	7/1/2010 12:18:41 PM
Surr: 1,2-Dichloroethane-d4	91.3	54.6-141		%REC	10	7/1/2010 12:18:41 PM
Surr: 4-Bromofluorobenzene	119	60.1-133		%REC	200	7/1/2010 1:41:20 PM
Surr: Dibromofluoromethane	105	78.5-130		%REC	10	7/1/2010 12:18:41 PM
Surr: Toluene-d8	113	79.5-126		%REC	10	7/1/2010 12:18:41 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Benzene Strippers **Work Order:** 1006A23

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R39595**	Analysis Date:	7/1/2010 9:04:47 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R39595**	Analysis Date:	7/1/2010 10:00:59 AM		
Benzene	19.23	µg/L	1.0	20	0	96.2	82.4	116			
Toluene	21.45	µg/L	1.0	20	0	107	89.5	123			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/29/2010**

Work Order Number **1006A23** Received by: TLS

Checklist completed by: _____ 6/29/10 Sample ID labels checked by: _____
Signature Date Initials

Matrix: Carrier name: Client drop-off

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**3.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

_____

_____

_____

_____

Corrective Action _____

_____

_____

Chain-of-Custody Record

Client: WESTERN REFINING
Gallup Refinery
Mailing Address: RT 3 Box 9
Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 505 722 0210
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time: (NO charge check with ANDY)
☐ Standard ☒ Rush
Project Name: BZ STRIPPERS
Project #: BZ API-OUT
Project Manager: Thurman Larsen
Sampler: Alvin Dorsey
On Ice: ☒ Yes ☐ No
Sample Temperature: 5.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 100601023
06-28-10	1540	H20	BZ 1-2 OUT	40ML-3	HCl	1
06-29-10	0800	H20	BZ 1-2 OUT	40ML-3	HCl	2

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 B BTEX-MTBE				Air Bubbles (Y or N)
											X				
											X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
06-29-10	1200	Alvin Dorsey			
06-29-10	1325			6/29/10	1325

Remarks: NO charge RUSH FOR BZ 1-2 OUT
ALSO CC HOPE MONZEGO & KRISTIN VAN HONN (CHECK WITH ANDY)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chavez, Carl J, EMNRD

From: Johnson, Cheryl [Cheryl.Johnson@wnr.com]
Sent: Friday, June 04, 2010 9:51 AM
To: Van Horn, Kristen, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Lieb, Jim
Subject: 2nd Quarter Well Inspection Findings

Good Morning:

As required by the OCD discharge permit to report any presence of water, the following wells indicated the presence of water during quarterly inspections conducted on 6/3/10.

GWM-3 – gauged on 6/3/10 at 1400 hours: DTW = 17.17 ft. DTB = 18.05. Total water level = 0.88 feet. Well is located on the northwest corner of Evaporation Pond 1(EP1).
GWM-2 – gauged on 6/3/10 at 1409 hours: DTW = 17.57 ft. DTB = 19.07. Total water level = 1.5 feet. Well is located on the northwest corner of Aeration Lagoon 2 (between AL2 and EP1)

First Quarter 2010 inspections conducted on 3/3/10 indicated these wells as dry.

Currently there is not enough water in each of the wells to sample for all of the requirements (BTEX, MTBE, GRO/DRO & GEN CHEM). We may be able to sample for BTEX and GRO/DRO on GWM 3 and possibly have enough water in GWM 2 to gather the full sweep. Please advise what course of action you would like us to take concerning these wells. If you have any questions please call or e-mail me.

Thanks, cj

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
505 722 0231 Direct
505 722 0210 Fax
505 722 3833 Main
cheryl.johnson@wnr.com

Safety starts with "S", but always begins with "You"

Chavez, Carl J, EMNRD

From: Johnson, Cheryl [Cheryl.Johnson@wnr.com]
Sent: Thursday, July 01, 2010 10:09 AM
To: Van Horn, Kristen, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Lieb, Jim
Attachments: 2nd qtr napis. 2010.pdf; NAPIS 2ND QTR 2010 WELL LOGS.xls

Attached are the Hall Lab Analysis and the NAPIS Well logs for the second quarter 2010. Table lists analytes that exceed the NMWQS or the RRSL standards.

	Benzene	MTBE	Barium	1-Methylnaphthalene	Napthalene	DRO	GRO
Standards	**NMWQS 0.01 mg/L**	**RRSL 0.012 mg/L**	**NMWQS 1.0 mg/L**	**RRSL 0.0023 mg/L**	**0.00014 mg/L**		
Napis 2	0.174	0.23				6.3	1.3
Napis 3	0.2	0.08	1.7	0.033	0.089	1.8	0.89

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
505 722 0231 Direct
505 722 0210 Fax
505 722 3833 Main
cheryl.johnson@wnr.com

Safety starts with "S", but always begins with "You"

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, June 28, 2010

Cheryl Johnson
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: 2nd Qtr NAPIS

Order No.: 1006415

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 6/11/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS 1
Lab Order:	1006415	**Collection Date:**	6/8/2010 2:50:00 PM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/18/2010 12:07:31 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/18/2010 12:07:31 PM
Surr: DNOP	126	86.9-151		%REC	1	6/18/2010 12:07:31 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/18/2010 3:43:45 PM
Surr: BFB	89.0	55.2-107		%REC	1	6/18/2010 3:43:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	6/18/2010 3:43:45 PM
Benzene	ND	1.0		µg/L	1	6/18/2010 3:43:45 PM
Toluene	ND	1.0		µg/L	1	6/18/2010 3:43:45 PM
Ethylbenzene	ND	1.0		µg/L	1	6/18/2010 3:43:45 PM
Xylenes, Total	ND	2.0		µg/L	1	6/18/2010 3:43:45 PM
Surr: 4-Bromofluorobenzene	97.0	65.9-130		%REC	1	6/18/2010 3:43:45 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	ND	2.0		µg/L	1	6/16/2010 6:32:49 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 6:32:49 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 6:32:49 PM
Acenaphthylene	ND	2.5		µg/L	1	6/16/2010 6:32:49 PM
Acenaphthene	ND	5.0		µg/L	1	6/16/2010 6:32:49 PM
Fluorene	ND	0.80		µg/L	1	6/16/2010 6:32:49 PM
Phenanthrene	ND	0.60		µg/L	1	6/16/2010 6:32:49 PM
Anthracene	ND	0.60		µg/L	1	6/16/2010 6:32:49 PM
Fluoranthene	ND	0.30		µg/L	1	6/16/2010 6:32:49 PM
Pyrene	ND	0.30		µg/L	1	6/16/2010 6:32:49 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/16/2010 6:32:49 PM
Chrysene	ND	0.20		µg/L	1	6/16/2010 6:32:49 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/16/2010 6:32:49 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/16/2010 6:32:49 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/16/2010 6:32:49 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/16/2010 6:32:49 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/16/2010 6:32:49 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/16/2010 6:32:49 PM
Surr: Benzo(e)pyrene	41.8	28.3-111		%REC	1	6/16/2010 6:32:49 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.73	0.10		mg/L	1	6/15/2010 1:34:27 AM
Chloride	170	10		mg/L	20	6/15/2010 1:51:52 AM
Bromide	2.2	0.10		mg/L	1	6/15/2010 1:34:27 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS 1
Lab Order:	1006415	**Collection Date:**	6/8/2010 2:50:00 PM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrate (As N)+Nitrite (As N)	4.0	1.0		mg/L	5	6/24/2010 12:38:02 PM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/15/2010 1:34:27 AM
Sulfate	56	10		mg/L	20	6/15/2010 1:51:52 AM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/15/2010 5:16:14 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 6:58:40 PM
Barium	0.13	0.020		mg/L	1	6/15/2010 6:58:40 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 6:58:40 PM
Calcium	72	1.0		mg/L	1	6/17/2010 11:55:18 AM
Chromium	ND	0.0060		mg/L	1	6/15/2010 6:58:40 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 6:58:40 PM
Magnesium	13	1.0		mg/L	1	6/17/2010 11:55:18 AM
Potassium	ND	1.0		mg/L	1	6/17/2010 11:55:18 AM
Selenium	ND	0.050		mg/L	1	6/15/2010 6:58:40 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 6:58:40 PM
Sodium	370	5.0		mg/L	5	6/17/2010 11:59:16 AM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 5:33:21 PM
Barium	0.18	0.020		mg/L	1	6/15/2010 5:33:21 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 5:33:21 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 5:33:21 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 5:33:21 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 5:33:21 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 5:33:21 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	1800	0.010		µmhos/cm	1	6/11/2010 9:23:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	7.86	0.1		pH units	1	6/11/2010 9:23:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E *Estimated value*
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	KA3
Lab Order:	1006415	**Collection Date:**	6/10/2010 10:53:00 AM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/18/2010 1:15:46 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/18/2010 1:15:46 PM
Surr: DNOP	118	86.9-151		%REC	1	6/18/2010 1:15:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/18/2010 4:14:06 PM
Surr: BFB	80.9	55.2-107		%REC	1	6/18/2010 4:14:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	6/18/2010 4:14:06 PM
Benzene	ND	1.0		µg/L	1	6/18/2010 4:14:06 PM
Toluene	ND	1.0		µg/L	1	6/18/2010 4:14:06 PM
Ethylbenzene	ND	1.0		µg/L	1	6/18/2010 4:14:06 PM
Xylenes, Total	ND	2.0		µg/L	1	6/18/2010 4:14:06 PM
Surr: 4-Bromofluorobenzene	87.3	65.9-130		%REC	1	6/18/2010 4:14:06 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	ND	2.0		µg/L	1	6/16/2010 6:54:06 PM
1-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 6:54:06 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 6:54:06 PM
Acenaphthylene	ND	2.5		µg/L	1	6/16/2010 6:54:06 PM
Acenaphthene	ND	5.0		µg/L	1	6/16/2010 6:54:06 PM
Fluorene	ND	0.80		µg/L	1	6/16/2010 6:54:06 PM
Phenanthrene	ND	0.60		µg/L	1	6/16/2010 6:54:06 PM
Anthracene	ND	0.60		µg/L	1	6/16/2010 6:54:06 PM
Fluoranthene	ND	0.30		µg/L	1	6/16/2010 6:54:06 PM
Pyrene	ND	0.30		µg/L	1	6/16/2010 6:54:06 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/16/2010 6:54:06 PM
Chrysene	ND	0.20		µg/L	1	6/16/2010 6:54:06 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/16/2010 6:54:06 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/16/2010 6:54:06 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/16/2010 6:54:06 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/16/2010 6:54:06 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/16/2010 6:54:06 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/16/2010 6:54:06 PM
Surr: Benzo(e)pyrene	81.6	28.3-111		%REC	1	6/16/2010 6:54:06 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.38	0.10		mg/L	1	6/24/2010 2:05:05 PM
Chloride	1100	50		mg/L	100	6/24/2010 1:30:15 PM
Bromide	4.7	0.10		mg/L	1	6/24/2010 2:05:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	KA3
Lab Order:	1006415	**Collection Date:**	6/10/2010 10:53:00 AM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrate (As N)+Nitrite (As N)	17	4.0		mg/L	20	6/17/2010 8:01:31 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/24/2010 2:05:05 PM
Sulfate	390	10		mg/L	20	6/24/2010 3:14:43 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/15/2010 5:18:01 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 7:07:31 PM
Barium	0.078	0.020		mg/L	1	6/15/2010 7:07:31 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 7:07:31 PM
Calcium	38	1.0		mg/L	1	6/17/2010 12:12:31 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 7:07:31 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 7:07:31 PM
Magnesium	6.5	1.0		mg/L	1	6/17/2010 12:12:31 PM
Potassium	4.1	1.0		mg/L	1	6/17/2010 12:12:31 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 7:07:31 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 7:07:31 PM
Sodium	890	10		mg/L	10	6/17/2010 12:16:34 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 5:40:20 PM
Barium	0.17	0.020		mg/L	1	6/15/2010 5:40:20 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 5:40:20 PM
Chromium	0.0064	0.0060		mg/L	1	6/15/2010 5:40:20 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 5:40:20 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 5:40:20 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 5:40:20 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	3600	0.010		µmhos/cm	1	6/11/2010 9:49:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	8.21	0.1		pH units	1	6/11/2010 9:49:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-3
Lab Order:	1006415	**Collection Date:**	6/10/2010 10:10:00 AM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	1.8	1.0		mg/L	1	6/18/2010 1:49:52 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/18/2010 1:49:52 PM
Surr: DNOP	120	86.9-151		%REC	1	6/18/2010 1:49:52 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.89	0.050		mg/L	1	6/18/2010 5:14:46 PM
Surr: BFB	118	55.2-107	S	%REC	1	6/18/2010 5:14:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	80	2.5		µg/L	1	6/18/2010 5:14:46 PM
Benzene	200	10		µg/L	10	6/21/2010 12:49:00 PM
Toluene	ND	1.0		µg/L	1	6/18/2010 5:14:46 PM
Ethylbenzene	12	1.0		µg/L	1	6/18/2010 5:14:46 PM
Xylenes, Total	ND	2.0		µg/L	1	6/18/2010 5:14:46 PM
Surr: 4-Bromofluorobenzene	113	65.9-130		%REC	1	6/18/2010 5:14:46 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	45	2.0		µg/L	1	6/16/2010 7:15:20 PM
1-Methylnaphthalene	50	2.0		µg/L	1	6/16/2010 7:15:20 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 7:15:20 PM
Acenaphthylene	ND	2.5		µg/L	1	6/16/2010 7:15:20 PM
Acenaphthene	ND	5.0		µg/L	1	6/16/2010 7:15:20 PM
Fluorene	4.9	0.80		µg/L	1	6/16/2010 7:15:20 PM
Phenanthrene	4.5	0.60		µg/L	1	6/16/2010 7:15:20 PM
Anthracene	ND	0.60		µg/L	1	6/16/2010 7:15:20 PM
Fluoranthene	ND	0.30		µg/L	1	6/16/2010 7:15:20 PM
Pyrene	ND	0.30		µg/L	1	6/16/2010 7:15:20 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/16/2010 7:15:20 PM
Chrysene	ND	0.20		µg/L	1	6/16/2010 7:15:20 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/16/2010 7:15:20 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/16/2010 7:15:20 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/16/2010 7:15:20 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/16/2010 7:15:20 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/16/2010 7:15:20 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/16/2010 7:15:20 PM
Surr: Benzo(e)pyrene	45.1	28.3-111		%REC	1	6/16/2010 7:15:20 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	1.5	0.10		mg/L	1	6/24/2010 2:22:29 PM
Chloride	260	10		mg/L	20	6/17/2010 7:26:41 AM
Bromide	1.1	0.10		mg/L	1	6/24/2010 2:22:29 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-3
Lab Order:	1006415	**Collection Date:**	6/10/2010 10:10:00 AM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	6/17/2010 8:18:56 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/24/2010 2:22:29 PM
Sulfate	39	0.50		mg/L	1	6/24/2010 2:22:29 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/15/2010 5:19:48 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 7:15:06 PM
Barium	0.62	0.020		mg/L	1	6/15/2010 7:15:06 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 7:15:06 PM
Calcium	87	1.0		mg/L	1	6/17/2010 12:19:34 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 7:15:06 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 7:15:06 PM
Magnesium	15	1.0		mg/L	1	6/17/2010 12:19:34 PM
Potassium	ND	1.0		mg/L	1	6/17/2010 12:19:34 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 7:15:06 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 7:15:06 PM
Sodium	260	5.0		mg/L	5	6/17/2010 12:23:36 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 5:47:33 PM
Barium	0.54	0.020		mg/L	1	6/15/2010 5:47:33 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 5:47:33 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 5:47:33 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 5:47:33 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 5:47:33 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 5:47:33 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	1600	0.010		µmhos/cm	1	6/11/2010 10:05:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	7.84	0.1		pH units	1	6/11/2010 10:05:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-2
Lab Order:	1006415	**Collection Date:**	6/10/2010 9:18:00 AM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	6.3	1.0		mg/L	1	6/18/2010 2:24:13 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/18/2010 2:24:13 PM
Surr: DNOP	117	86.9-151		%REC	1	6/18/2010 2:24:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1.3	0.25		mg/L	5	6/18/2010 5:45:00 PM
Surr: BFB	100	55.2-107		%REC	5	6/18/2010 5:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Methyl tert-butyl ether (MTBE)	230	13		µg/L	5	6/18/2010 5:45:00 PM
Benzene	140	5.0		µg/L	5	6/18/2010 5:45:00 PM
Toluene	ND	5.0		µg/L	5	6/18/2010 5:45:00 PM
Ethylbenzene	9.6	5.0		µg/L	5	6/18/2010 5:45:00 PM
Xylenes, Total	ND	10		µg/L	5	6/18/2010 5:45:00 PM
Surr: 4-Bromofluorobenzene	101	65.9-130		%REC	5	6/18/2010 5:45:00 PM
EPA METHOD 8310: PAHS						Analyst: **SCC**
Naphthalene	89	2.0		µg/L	1	6/16/2010 7:36:38 PM
1-Methylnaphthalene	33	2.0		µg/L	1	6/16/2010 7:36:38 PM
2-Methylnaphthalene	ND	2.0		µg/L	1	6/16/2010 7:36:38 PM
Acenaphthylene	ND	2.5		µg/L	1	6/16/2010 7:36:38 PM
Acenaphthene	ND	5.0		µg/L	1	6/16/2010 7:36:38 PM
Fluorene	11	1.6		µg/L	2	6/17/2010 8:15:04 AM
Phenanthrene	5.0	0.60		µg/L	1	6/16/2010 7:36:38 PM
Anthracene	ND	0.60		µg/L	1	6/16/2010 7:36:38 PM
Fluoranthene	ND	0.30		µg/L	1	6/16/2010 7:36:38 PM
Pyrene	ND	0.30		µg/L	1	6/16/2010 7:36:38 PM
Benz(a)anthracene	ND	0.070		µg/L	1	6/16/2010 7:36:38 PM
Chrysene	ND	0.20		µg/L	1	6/16/2010 7:36:38 PM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	6/16/2010 7:36:38 PM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	6/16/2010 7:36:38 PM
Benzo(a)pyrene	ND	0.070		µg/L	1	6/16/2010 7:36:38 PM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	6/16/2010 7:36:38 PM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	6/16/2010 7:36:38 PM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	6/16/2010 7:36:38 PM
Surr: Benzo(e)pyrene	80.0	28.3-111		%REC	1	6/16/2010 7:36:38 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	1.2	0.50		mg/L	5	6/24/2010 2:39:54 PM
Chloride	340	25		mg/L	50	6/28/2010 6:14:32 AM
Bromide	1.2	0.50		mg/L	5	6/24/2010 2:39:54 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS-2
Lab Order:	1006415	**Collection Date:**	6/10/2010 9:18:00 AM
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	6/17/2010 8:36:20 AM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	6/24/2010 2:39:54 PM
Sulfate	8.7	2.5		mg/L	5	6/24/2010 2:39:54 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/15/2010 5:25:20 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 7:22:26 PM
Barium	1.7	0.10		mg/L	5	6/17/2010 12:30:22 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 7:22:26 PM
Calcium	80	1.0		mg/L	1	6/17/2010 12:26:35 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 7:22:26 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 7:22:26 PM
Magnesium	16	1.0		mg/L	1	6/17/2010 12:26:35 PM
Potassium	ND	1.0		mg/L	1	6/17/2010 12:26:35 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 7:22:26 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 7:22:26 PM
Sodium	320	5.0		mg/L	5	6/17/2010 12:30:22 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 5:56:10 PM
Barium	1.7	0.10		mg/L	5	6/15/2010 6:09:16 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 5:56:10 PM
Chromium	ND	0.0060		mg/L	1	6/15/2010 5:56:10 PM
Lead	ND	0.0050		mg/L	1	6/15/2010 5:56:10 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 5:56:10 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 5:56:10 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	1800	0.010		µmhos/cm	1	6/11/2010 10:26:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	7.80	0.1		pH units	1	6/11/2010 10:26:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TRIP BLANK
Lab Order:	1006415	**Collection Date:**	
Project:	2nd Qtr NAPIS	**Date Received:**	6/11/2010
Lab ID:	1006415-05	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/18/2010 11:18:07 PM
Surr: BFB	89.0	55.2-107		%REC	1	6/18/2010 11:18:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	6/18/2010 11:18:07 PM
Toluene	ND	1.0		µg/L	1	6/18/2010 11:18:07 PM
Ethylbenzene	ND	1.0		µg/L	1	6/18/2010 11:18:07 PM
Xylenes, Total	ND	2.0		µg/L	1	6/18/2010 11:18:07 PM
Surr: 4-Bromofluorobenzene	94.8	65.9-130		%REC	1	6/18/2010 11:18:07 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: ***EPA Method 300.0: Anions***											
Sample ID: MB		*MBLK*				Batch ID:	**R39244**	Analysis Date:	6/11/2010 10:32:37 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39261**	Analysis Date:	6/14/2010 6:36:36 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39261**	Analysis Date:	6/14/2010 11:15:11 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39321**	Analysis Date:	6/16/2010 4:56:11 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39459**	Analysis Date:	6/23/2010 7:13:23 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39500**	Analysis Date:	6/26/2010 6:19:01 PM		
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39513**	Analysis Date:	6/27/2010 6:55:35 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R39513**	Analysis Date:	6/27/2010 6:56:35 PM		
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS-b		*LCS*				Batch ID:	**R39244**	Analysis Date:	6/11/2010 2:01:30 PM		
Fluoride	0.5069	mg/L	0.10	0.5	0	101	90	110			
Chloride	4.840	mg/L	0.50	5	0	96.8	90	110			
Bromide	2.472	mg/L	0.10	2.5	0	98.9	90	110			
Nitrate (As N)+Nitrite (As N)	3.402	mg/L	0.20	3.5	0	97.2	90	110			
Phosphorus, Orthophosphate (As P)	4.814	mg/L	0.50	5	0	96.3	90	110			
Sulfate	9.786	mg/L	0.50	10	0	97.9	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39261**	Analysis Date:	6/14/2010 6:54:01 PM		
Fluoride	0.4755	mg/L	0.10	0.5	0	95.1	90	110			
Chloride	4.467	mg/L	0.50	5	0	89.3	90	110			S
Bromide	2.269	mg/L	0.10	2.5	0	90.8	90	110			
Nitrate (As N)+Nitrite (As N)	3.120	mg/L	0.20	3.5	0	89.1	90	110			S
Phosphorus, Orthophosphate (As P)	4.552	mg/L	0.50	5	0	91.0	90	110			
Sulfate	9.174	mg/L	0.50	10	0	91.7	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39261**	Analysis Date:	6/14/2010 11:32:35 PM		
Fluoride	0.5305	mg/L	0.10	0.5	0	106	90	110			
Chloride	4.768	mg/L	0.50	5	0	95.4	90	110			
Bromide	2.414	mg/L	0.10	2.5	0	96.6	90	110			
Nitrate (As N)+Nitrite (As N)	3.358	mg/L	0.20	3.5	0	96.0	90	110			
Phosphorus, Orthophosphate (As P)	4.858	mg/L	0.50	5	0	97.2	90	110			
Sulfate	9.829	mg/L	0.50	10	0	98.3	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39321**	Analysis Date:	6/16/2010 5:13:35 PM		
Fluoride	0.4861	mg/L	0.10	0.5	0	97.2	90	110			
Chloride	4.988	mg/L	0.50	5	0	99.8	90	110			
Bromide	2.547	mg/L	0.10	2.5	0	102	90	110			
Nitrate (As N)+Nitrite (As N)	3.503	mg/L	0.20	3.5	0	100	90	110			
Phosphorus, Orthophosphate (As P)	4.920	mg/L	0.50	5	0	98.4	90	110			
Sulfate	10.24	mg/L	0.50	10	0	102	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39469**	Analysis Date:	6/23/2010 7:30:47 PM		
Fluoride	0.5064	mg/L	0.10	0.5	0	101	90	110			
Chloride	5.062	mg/L	0.50	5	0	101	90	110			
Bromide	2.562	mg/L	0.10	2.5	0	102	90	110			
Nitrate (As N)+Nitrite (As N)	3.551	mg/L	0.20	3.5	0	101	90	110			
Phosphorus, Orthophosphate (As P)	5.040	mg/L	0.50	5	0	101	90	110			
Sulfate	10.41	mg/L	0.50	10	0	104	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R39500**	Analysis Date:	6/26/2010 6:36:26 PM		
Chloride	5.007	mg/L	0.50	5	0	100	90	110			
Bromide	2.596	mg/L	0.10	2.5	0	104	90	110			
Nitrate (As N)+Nitrite (As N)	3.583	mg/L	0.20	3.5	0	102	90	110			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: LCS		*LCS*				Batch ID:	**R39500**	Analysis Date:		6/26/2010 6:36:26 PM	
Phosphorus, Orthophosphate (As P)	5.139	mg/L	0.50	5	0	103	90	110			
Sulfate	10.35	mg/L	0.50	10	0	103	90	110			
Sample ID: LCS-b		*LCS*				Batch ID:	**R39513**	Analysis Date:		6/27/2010 10:24:28 PM	
Fluoride	0.5344	mg/L	0.10	0.5	0	107	90	110			
Chloride	4.765	mg/L	0.50	5	0	95.3	90	110			
Bromide	2.477	mg/L	0.10	2.5	0	99.1	90	110			
Nitrate (As N)+Nitrite (As N)	3.428	mg/L	0.20	3.5	0	98.0	90	110			
Phosphorus, Orthophosphate (As P)	4.925	mg/L	0.50	5	0	98.5	90	110			
Sulfate	9.967	mg/L	0.50	10	0	99.7	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-22630		*MBLK*				Batch ID:	**22630**	Analysis Date:		6/18/2010 7:03:57 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-22630		*LCS*				Batch ID:	**22630**	Analysis Date:		6/18/2010 7:37:16 AM	
Diesel Range Organics (DRO)	5.768	mg/L	1.0	5	0	115	74	157			
Sample ID: LCSD-22630		*LCSD*				Batch ID:	**22630**	Analysis Date:		6/18/2010 8:10:51 AM	
Diesel Range Organics (DRO)	5.624	mg/L	1.0	5	0	112	74	157	2.52	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1006415-01A MSD		*MSD*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 6:45:44 PM	
Gasoline Range Organics (GRO)	0.5416	mg/L	0.050	0.5	0	108	80	115	6.64	8.39	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 9:08:12 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 7:16:05 PM	
Gasoline Range Organics (GRO)	0.5172	mg/L	0.050	0.5	0	103	77.8	124			
Sample ID: 1006415-01A MS		*MS*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 6:15:24 PM	
Gasoline Range Organics (GRO)	0.5068	mg/L	0.050	0.5	0	101	80	115			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 1006415-03A MSD		*MSD*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 8:16:38 PM	
Methyl tert-butyl ether (MTBE)	83.09	µg/L	2.5	20	80.09	15.0	51.2	138	3.49	28	S
Benzene	184.3	µg/L	1.0	20	180.4	19.7	85.9	113	1.57	27	SE
Toluene	21.17	µg/L	1.0	20	0	106	86.4	113	3.65	19	
Ethylbenzene	32.64	µg/L	1.0	20	12.29	102	83.5	118	3.29	10	
Xylenes, Total	66.87	µg/L	2.0	60	1.44	109	83.4	122	2.87	13	
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 9:08:12 AM	
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R39367**	Analysis Date:		6/21/2010 11:48:45 AM	
Methyl tert-butyl ether (MTBE)	17.75	µg/L	2.5	20	0	88.7	82.5	129			
Benzene	20.92	µg/L	1.0	20	0	105	87.9	121			
Toluene	21.32	µg/L	1.0	20	0	107	83	124			
Ethylbenzene	21.16	µg/L	1.0	20	0	106	81.7	122			
Xylenes, Total	64.04	µg/L	2.0	60	0	107	85.6	121			
Sample ID: 1006415-03A MS		*MS*				Batch ID:	**R39367**	Analysis Date:		6/18/2010 7:46:22 PM	
Methyl tert-butyl ether (MTBE)	80.24	µg/L	2.5	20	80.09	0.720	51.2	138			S
Benzene	187.2	µg/L	1.0	20	180.4	34.4	85.9	113			SE
Toluene	21.96	µg/L	1.0	20	0	110	86.4	113			
Ethylbenzene	33.73	µg/L	1.0	20	12.29	107	83.5	118			
Xylenes, Total	68.82	µg/L	2.0	60	1.44	112	83.4	122			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs											
Sample ID: MB-22626		*MBLK*				Batch ID:	**22626**	Analysis Date:		6/16/2010 1:55:58 PM	
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	2.0								
2-Methylnaphthalene	ND	µg/L	2.0								
Acenaphthylene	ND	µg/L	2.5								
Acenaphthene	ND	µg/L	5.0								
Fluorene	ND	µg/L	0.80								
Phenanthrene	ND	µg/L	0.60								
Anthracene	ND	µg/L	0.60								
Fluoranthene	ND	µg/L	0.30								
Pyrene	ND	µg/L	0.30								
Benz(a)anthracene	ND	µg/L	0.070								
Chrysene	ND	µg/L	0.20								
Benzo(b)fluoranthene	ND	µg/L	0.10								
Benzo(k)fluoranthene	ND	µg/L	0.070								
Benzo(a)pyrene	ND	µg/L	0.070								
Dibenz(a,h)anthracene	ND	µg/L	0.070								
Benzo(g,h,i)perylene	ND	µg/L	0.080								
Indeno(1,2,3-cd)pyrene	ND	µg/L	0.080								
Sample ID: LCS-22626		*LCS*				Batch ID:	**22626**	Analysis Date:		6/16/2010 2:17:16 PM	
Naphthalene	51.35	µg/L	2.0	80	0	64.2	20.5	109			
1-Methylnaphthalene	59.93	µg/L	2.0	80.2	0	74.7	23.1	116			
2-Methylnaphthalene	54.45	µg/L	2.0	80	0	68.1	19.5	112			
Acenaphthylene	62.87	µg/L	2.5	80.2	0	78.4	27.5	119			
Acenaphthene	66.20	µg/L	5.0	80	0	82.8	31	117			
Fluorene	4.820	µg/L	0.80	8.02	0	60.1	17.1	109			
Phenanthrene	3.230	µg/L	0.60	4.02	0	80.3	25.5	112			
Anthracene	3.290	µg/L	0.60	4.02	0	81.8	25.8	119			
Fluoranthene	7.000	µg/L	0.30	8.02	0	87.3	27.2	122			
Pyrene	6.290	µg/L	0.30	8.02	0	78.4	24.1	118			
Benz(a)anthracene	0.6400	µg/L	0.070	0.802	0	79.8	31.1	125			
Chrysene	3.290	µg/L	0.20	4.02	0	81.8	32.8	119			
Benzo(b)fluoranthene	0.8800	µg/L	0.10	1.002	0	87.8	24.4	117			
Benzo(k)fluoranthene	0.4500	µg/L	0.070	0.5	0	90.0	28.4	132			
Benzo(a)pyrene	0.4300	µg/L	0.070	0.502	0	85.7	32.4	119			
Dibenz(a,h)anthracene	0.8800	µg/L	0.070	1.002	0	87.8	33.9	120			
Benzo(g,h,i)perylene	0.8800	µg/L	0.080	1	0	88.0	35.2	113			
Indeno(1,2,3-cd)pyrene	1.760	µg/L	0.080	2.004	0	87.8	33.6	115			
Sample ID: LCSD-22626		*LCSD*				Batch ID:	**22626**	Analysis Date:		6/16/2010 2:38:32 PM	
Naphthalene	51.51	µg/L	2.0	80	0	64.4	20.5	109	0.311	32.1	
1-Methylnaphthalene	58.77	µg/L	2.0	80.2	0	73.3	23.1	116	1.95	32.7	
2-Methylnaphthalene	53.84	µg/L	2.0	80	0	67.3	19.5	112	1.13	34	
Acenaphthylene	63.91	µg/L	2.5	80.2	0	79.7	27.5	119	1.64	38.8	
Acenaphthene	67.32	µg/L	5.0	80	0	84.2	31	117	1.68	38.6	
Fluorene	4.970	µg/L	0.80	8.02	0	62.0	17.1	109	3.06	29.3	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs											
Sample ID: LCSD-22626		*LCSD*				Batch ID:	**22626**	Analysis Date:		6/16/2010 2:38:32 PM	
Phenanthrene	3.330	µg/L	0.60	4.02	0	82.8	25.5	112	3.05	25	
Anthracene	3.400	µg/L	0.60	4.02	0	84.6	25.8	119	3.29	23.9	
Fluoranthene	7.100	µg/L	0.30	8.02	0	88.5	27.2	122	1.42	15.7	
Pyrene	6.530	µg/L	0.30	8.02	0	81.4	24.1	118	3.74	15.3	
Benz(a)anthracene	0.6600	µg/L	0.070	0.802	0	82.3	31.1	125	3.08	19	
Chrysene	3.350	µg/L	0.20	4.02	0	83.3	32.8	119	1.81	16.6	
Benzo(b)fluoranthene	0.9200	µg/L	0.10	1.002	0	91.8	24.4	117	4.44	21.7	
Benzo(k)fluoranthene	0.4800	µg/L	0.070	0.5	0	96.0	28.4	132	6.45	19.4	
Benzo(a)pyrene	0.4300	µg/L	0.070	0.502	0	85.7	32.4	119	0	16.7	
Dibenz(a,h)anthracene	0.8800	µg/L	0.070	1.002	0	87.8	33.9	120	0	17.3	
Benzo(g,h,i)perylene	0.8800	µg/L	0.080	1	0	88.0	35.2	113	0	18	
Indeno(1,2,3-cd)pyrene	1.790	µg/L	0.080	2.004	0	89.3	33.6	115	1.69	17.7	
Method: EPA Method 7470: Mercury											
Sample ID: MB-22641		*MBLK*				Batch ID:	**22641**	Analysis Date:		6/15/2010 4:42:02 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-22641		*LCS*				Batch ID:	**22641**	Analysis Date:		6/15/2010 4:43:48 PM	
Mercury	0.005270	mg/L	0.00020	0.005	0	105	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		*MBLK*				Batch ID:	**R39277**	Analysis Date:	6/15/2010 3:40:09 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Sample ID: MB		*MBLK*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 9:58:18 AM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Sample ID: LCS		*LCS*				Batch ID:	**R39277**	Analysis Date:	6/15/2010 3:43:18 PM		
Arsenic	0.5066	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4994	mg/L	0.020	0.5	0	99.9	80	120			
Cadmium	0.5038	mg/L	0.0020	0.5	0	101	80	120			
Calcium	50.52	mg/L	1.0	50.5	0	100	80	120			
Chromium	0.5029	mg/L	0.0060	0.5	0	101	80	120			
Lead	0.5017	mg/L	0.0050	0.5	0	100	80	120			
Magnesium	51.05	mg/L	1.0	50.5	0	101	80	120			
Potassium	54.59	mg/L	1.0	55	0	99.3	80	120			
Selenium	0.5250	mg/L	0.050	0.5	0	105	80	120			
Silver	0.5128	mg/L	0.0050	0.5	0	103	80	120			
Sodium	54.15	mg/L	1.0	50.5	0	107	80	120			
Sample ID: LCS		*LCS*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 10:01:05 AM		
Arsenic	0.5043	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4713	mg/L	0.020	0.5	0	94.3	80	120			
Cadmium	0.4886	mg/L	0.0020	0.5	0	97.7	80	120			
Calcium	49.15	mg/L	1.0	50.5	0	97.3	80	120			
Chromium	0.4798	mg/L	0.0060	0.5	0	96.0	80	120			
Lead	0.4875	mg/L	0.0050	0.5	0	97.5	80	120			
Magnesium	49.46	mg/L	1.0	50.5	0	97.9	80	120			
Potassium	51.94	mg/L	1.0	55	0	94.4	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr NAPIS **Work Order:** 1006415

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: LCS		*LCS*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 10:01:05 AM		
Selenium	0.4898	mg/L	0.050	0.5	0	98.0	80	120			
Silver	0.4889	mg/L	0.0050	0.5	0	97.8	80	120			
Sodium	51.81	mg/L	1.0	50.5	0	103	80	120			
Method: EPA 6010B: Total Recoverble Metals											
Sample ID: MB-22623		*MBLK*				Batch ID:	**22623**	Analysis Date:	6/15/2010 3:46:26 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-22623		*LCS*				Batch ID:	**22623**	Analysis Date:	6/15/2010 3:49:37 PM		
Arsenic	0.5208	mg/L	0.020	0.5	0	104	80	120			
Barium	0.5080	mg/L	0.020	0.5	0	102	80	120			
Cadmium	0.5068	mg/L	0.0020	0.5	0.0003	101	80	120			
Chromium	0.5167	mg/L	0.0060	0.5	0.001	103	80	120			
Lead	0.5119	mg/L	0.0050	0.5	0	102	80	120			
Selenium	0.5104	mg/L	0.050	0.5	0	102	80	120			
Silver	0.5186	mg/L	0.0050	0.5	0.0002	104	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/11/2010**

Work Order Number **1006415** Received by: TLS

Checklist completed by: _____ 6/11/10 Sample ID labels checked by: _____

Signature Date Initials

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	**1.5°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 10

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Gallup Refinery

Mailing Address: Rt 3 Box 7 Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: 2nd QTR NAPIS

Project #:

Project Manager: C Johnson

Sampler: C Johnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.5

HEAT No: 1600915

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAT No	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	RCRA8 Metals - Total	RCRA8 Metals - DISS	GenChem		Air Bubbles (Y or N)
6/8/10	1450	H_2O	NAPIS-1	3-40ml	HCl	1	X															
				3-40ml	HCl	1			X													
				1 L	None	1						X										
				250ml	HNO_3	1												X				
				2-125ml	HNO_3	1													X			
				1-125ml	H_2SO_4	1														X		
				1-250ml	None	1														X		

Date	Time	Relinquished by:	Received by:	Date	Time
6-10-10	12:00				
Date:	Time:	Relinquished by:	Received by:	6/11/10	915

Remarks: GenChem: Cations, Anions, pH, Spec Cond.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining Gallup Refinery

Mailing Address: Rt 3 Box 7 Gallup, NM 87301

Phone #: 505 722 0210

email or Fax#: 505 722 3833

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: 2nd QTR NAPLS

Project #:

Project Manager: CJohnson

Sampler: CJohnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.2

HEAL No. 1005015

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
6/10/10	1053	H2O	KA3	3-40ml	HCl	2
				3-40ml	HCl	2
				1 L	None	2
				2-500ml	HNO3	2
				2-125ml	HNO3	2
				1-250ml	None	2
				1-125ml	H2SO4	2
	1010		NAPLS-3	3-40ml	HCl	3
				3-40ml	HCl	3
				1-L	None	3
				2-500ml	HNO3	3
				2-125ml	HNO3	3

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/10/10	1402			6/11/10	915
Date:	Time:	Relinquished by:	Received by:	Date	Time

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	RCRA metals Total	RCRA Metals Diss	Gen Chem		Air Bubbles (Y or N)
X		X													
		X													
					X										
											X				
												X			
													X		
													X		
X															
		X													
					X										
											X				
												X			

Remarks: Gen Chem Cations, Anions, pH Spec Cond.

Chain-of-Custody Record

Client: Western Refining Gallup Refinery
Mailing Address: Rt 3 Box 7 Gallup, NM
Phone #: 505 722 3833
email or Fax#: 505 722 0210
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)
Accreditation ☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush
Project Name: 2nd QTR NAPIS
Project #:
Project Manager: C Johnson
Sampler: C Johnson
On Ice: ☒ Yes ☐ No
Sample Temperature: 2.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1006445
6/10/10	1010	H2O	NAPIS-3	1-250	None	3
"			"	1-125	H2SO4	3
	0918	1	NAPIS-2	3-40ml	HCl	4
				3-40ml	HCl	4
				2 500ml	HNO3	4
				2-125ml	HNO3	4
				1-L	None	4
				1-250ml	None	4
				1-125ml	H2SO4	4
			TRIP Blank			5

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			GenChem		Air Bubbles (Y or N)
													X		
													X		
X															
		X													
					X					X					
											X				
					X								X		
													X		

Date: 6/10/10 Time: 1402 Relinquished by:
Date: Time: Relinquished by:

Received by: 6/11 Date 0915 Time
Received by: Date Time

Remarks: GenChem: Cations, Anions, pH SC

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

WESTERN REFINING - GALLUP REFINERY
WELL SAMPLING DATA - 2nd QTR 2009

WELL #	NAPIS 1 (KA-1R)	NAPIS 2 (KA-2R)	NAPIS 3 (KA-3R)	KA-3
PURGE DATE	6/8/2010	6/10/2010	6/10/2010	6/10/2010
PURGE TIME	1430 hrs	0845 hrs	0934 hrs	1030 hrs
LIQUID DEPTH (FT)	8.37	8.93	8.87	8.39
DEPTH TO BTM (FT)	14	14.5	30.7	25
DIFFERENCE (FT)	5.63	5.57	21.83	16.61
1WVA = 0.163	0.91769	0.90791	3.55829	2.70743
3WVA'S	2.75307	2.72373	10.67487	8.12229
TEMP (DEG F)	61.1	76.6	79.9	68.8
Ph	6.82	6.08	5.98	6.57
COND(mS, µs)	1.1	918	1.192	1.168mS
DO(%)	24.60%	10.21%	29.20%	26.40%
SAL(ppt)	0.561	0.451	0.584	3.78
TDS(ppm)	551	457	602	3.41 ppt

NAPIS 1	Sample Day	Sample Time
	6/8/2010	1450 hrs

Weather: Sunny, few clouds, slight breeze 0-5 mph NE. Temp 85-90 Deg. 3 well volumes = 2.8 gals. On 6/8/10 started bailing with new bailer at 1430 hrs. First bail water clear to slightly cloudy, no apparent odor. Bailed approximately 2.5 gals. Water turned slighly cloudy on last bail possibly due to low water level from bailing.

Took sample on 6/8/10 @ 1450 hours for the following paramaters. 8021B, 8015B GRO/DRO, 8310, RCRA 8 metals, General Chem (ph, Cations, Anions, conductivity). Samples labeled and placed in cooler with ice.

NAPIS 2	Sample Day	Sample Time
	6/10/2010	0918 hrs

Weather: Clear day, Windy, 15-20 mph winds, NE. Temp 80-85 Deg. 3 well volumes = 2.7 Gals. On 6/10/10 started bailing at 0845 hrs. New bailer used for the purging of well and same bailer used for the sample. First bail water has a slight yellowish tint, no apparent odor. Bailed approximately 2.5 gals. Water turned slightly cloudy on last bail possibly due to low water level from bailing.

Took sample on 6/10/10 @ 0918 hours for the following paramaters. 8021B, 8015B GRO/DRO, 8310, RCRA 8 metals, General Chem (ph, Cations, Anions, conductivity). Samples labeled and placed in cooler with ice.

NAPIS 3	Sample Day	Sample Time
	6/10/2010	1010 hrs

Weather: Clear day, Windy, 15-20 mph winds, NE. Temp 80-85 Deg. 3 well volumes = 10.67 Gals. On 6/10/10 started bailing at 0934 hrs. New bailer used for the purging of well and same bailer used for the sample. First bail water has a slight yellowish tint, no apparent odor. Bailed approximately 10 gals. Water turned slightly cloudy on last bail possibly due to low water level from bailing.

Took sample on 6/10/10 @ 1010 hours for the following paramaters. 8021B, 8015B GRO/DRO, 8310, RCRA 8 metals, General Chem (ph, Cations, Anions, conductivity). Samples labeled and placed in cooler with ice.

KA-3	Sample Day	Sample Time
	6/10/2010	1053 hrs

Weather: Clear day, Windy, 15-20 mph winds, NE. Temp 80-85 Deg. 3 well volumes = 8.1 Gals. On 6/10/10 started bailing at 1030 hrs. New bailer used for the purging of well and same bailer used for the sample. First bail water has a slight yellowish tint, no apparent odor. Bailed approximately 8 gals. Water turned slightly cloudy on last bail possibly due to low water level from bailing.

Took sample on 6/10/10 at 1053 hours for the followiung parameters. 8021B, 8015B GRO/DRO, 8310 RCRA 8 Metals, Gen Chem (ph, Cations, Anions, Conductivity). Samples labeled and placed in cooler with ice.

NOTES:

Samples labeled & sealed and shipped UPS red to Hall Labs.

Instruments used: Solinst Model 122 Interface Meter to gauge DTW.

SAMPLER NAME/TITLE: Cheryl Johnson Environmental specialist

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, June 28, 2010

Cheryl Johnson
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: 2nd Qtr Effluents

Order No.: 1006379

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 6/10/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc. **Date:** *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup
Project:	2nd Qtr Effluents
Lab Order:	1006379

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_W, SAMPLE 1006379-03A: Surrogate "S" flag due to matrix interference.

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS Effluents
Lab Order:	1006379	**Collection Date:**	6/8/2010 9:52:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	150	3.0		mg/L	1	6/18/2010 9:52:08 AM
Motor Oil Range Organics (MRO)	16	15		mg/L	1	6/18/2010 9:52:08 AM
Surr: DNOP	122	86.9-151		%REC	1	6/18/2010 9:52:08 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	58	5.0		mg/L	100	6/17/2010 3:37:45 PM
Surr: BFB	106	55.2-107		%REC	100	6/17/2010 3:37:45 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	37	1.0		mg/L	10	6/26/2010 7:33:16 AM
Chloride	230	25		mg/L	50	6/26/2010 7:50:41 AM
Bromide	1.6	1.0		mg/L	10	6/26/2010 7:33:16 AM
Nitrate (As N)+Nitrite (As N)	4.2	1.0		mg/L	5	6/28/2010 6:31:57 AM
Phosphorus, Orthophosphate (As P)	ND	5.0	H	mg/L	10	6/26/2010 7:33:16 AM
Sulfate	880	25		mg/L	50	6/26/2010 7:50:41 AM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	0.0014	0.00020		mg/L	1	6/15/2010 4:58:19 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 6:32:49 PM
Barium	0.035	0.020		mg/L	1	6/15/2010 6:32:49 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 6:32:49 PM
Calcium	35	1.0		mg/L	1	6/17/2010 11:38:28 AM
Chromium	ND	0.0060		mg/L	1	6/15/2010 6:32:49 PM
Copper	ND	0.0060		mg/L	1	6/15/2010 6:32:49 PM
Iron	4.6	0.20		mg/L	10	6/17/2010 11:45:26 AM
Lead	ND	0.0050		mg/L	1	6/15/2010 6:32:49 PM
Magnesium	10	1.0		mg/L	1	6/17/2010 11:38:28 AM
Manganese	0.094	0.0020		mg/L	1	6/15/2010 6:32:49 PM
Potassium	10	1.0		mg/L	1	6/17/2010 11:38:28 AM
Selenium	ND	0.050		mg/L	1	6/15/2010 6:32:49 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 6:32:49 PM
Sodium	730	10		mg/L	10	6/17/2010 11:45:26 AM
Zinc	0.051	0.050		mg/L	1	6/15/2010 6:32:49 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 4:46:37 PM
Barium	0.072	0.020		mg/L	1	6/15/2010 4:46:37 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 4:46:37 PM
Calcium	35	1.0		mg/L	1	6/15/2010 4:46:37 PM

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- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS Effluents
Lab Order:	1006379	**Collection Date:**	6/8/2010 9:52:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Chromium	0.0067	0.0060		mg/L	1	6/15/2010 4:46:37 PM
Copper	0.012	0.0060		mg/L	1	6/15/2010 4:46:37 PM
Iron	7.8	1.0		mg/L	20	6/17/2010 10:27:21 AM
Lead	ND	0.0050		mg/L	1	6/15/2010 4:46:37 PM
Magnesium	10	1.0		mg/L	1	6/15/2010 4:46:37 PM
Manganese	0.10	0.0020		mg/L	1	6/15/2010 4:46:37 PM
Potassium	10	1.0		mg/L	1	6/15/2010 4:46:37 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 4:46:37 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 4:46:37 PM
Sodium	740	20		mg/L	20	6/17/2010 10:27:21 AM
Zinc	0.11	0.050		mg/L	1	6/15/2010 4:46:37 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Acenaphthene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Acenaphthylene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Aniline	600	50		µg/L	1	6/23/2010 4:31:49 PM
Anthracene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Azobenzene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Benz(a)anthracene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Benzo(a)pyrene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Benzoic acid	ND	100		µg/L	1	6/23/2010 4:31:49 PM
Benzyl alcohol	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/23/2010 4:31:49 PM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Butyl benzyl phthalate	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Carbazole	ND	50		µg/L	1	6/23/2010 4:31:49 PM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/23/2010 4:31:49 PM
4-Chloroaniline	ND	50		µg/L	1	6/23/2010 4:31:49 PM
2-Chloronaphthalene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
2-Chlorophenol	ND	50		µg/L	1	6/23/2010 4:31:49 PM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Chrysene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Di-n-butyl phthalate	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Di-n-octyl phthalate	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/23/2010 4:31:49 PM

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- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS Effluents
Lab Order:	1006379	**Collection Date:**	6/8/2010 9:52:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: LBJ
Dibenzofuran	85	50		µg/L	1	6/23/2010 4:31:49 PM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Diethyl phthalate	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Dimethyl phthalate	ND	50		µg/L	1	6/23/2010 4:31:49 PM
2,4-Dichlorophenol	ND	100		µg/L	1	6/23/2010 4:31:49 PM
2,4-Dimethylphenol	710	50		µg/L	1	6/23/2010 4:31:49 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/23/2010 4:31:49 PM
2,4-Dinitrophenol	ND	100		µg/L	1	6/23/2010 4:31:49 PM
2,4-Dinitrotoluene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Fluoranthene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Fluorene	210	50		µg/L	1	6/23/2010 4:31:49 PM
Hexachlorobenzene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Hexachlorobutadiene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Hexachloroethane	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Isophorone	ND	50		µg/L	1	6/23/2010 4:31:49 PM
2-Methylnaphthalene	4400	500		µg/L	10	6/23/2010 5:32:04 PM
2-Methylphenol	3100	500		µg/L	10	6/23/2010 5:32:04 PM
3+4-Methylphenol	5600	500		µg/L	10	6/23/2010 5:32:04 PM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/23/2010 4:31:49 PM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/23/2010 4:31:49 PM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Naphthalene	890	50		µg/L	1	6/23/2010 4:31:49 PM
2-Nitroaniline	ND	50		µg/L	1	6/23/2010 4:31:49 PM
3-Nitroaniline	ND	50		µg/L	1	6/23/2010 4:31:49 PM
4-Nitroaniline	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Nitrobenzene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
2-Nitrophenol	ND	50		µg/L	1	6/23/2010 4:31:49 PM
4-Nitrophenol	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Pentachlorophenol	ND	100		µg/L	1	6/23/2010 4:31:49 PM
Phenanthrene	990	50		µg/L	1	6/23/2010 4:31:49 PM
Phenol	12000	500		µg/L	10	6/23/2010 5:32:04 PM
Pyrene	100	50		µg/L	1	6/23/2010 4:31:49 PM
Pyridine	ND	50		µg/L	1	6/23/2010 4:31:49 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/23/2010 4:31:49 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/23/2010 4:31:49 PM

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Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS Effluents
Lab Order:	1006379	**Collection Date:**	6/8/2010 9:52:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/23/2010 4:31:49 PM
Surr: 2,4,6-Tribromophenol	19.2	16.6-150		%REC	1	6/23/2010 4:31:49 PM
Surr: 2-Fluorobiphenyl	47.8	19.6-134		%REC	1	6/23/2010 4:31:49 PM
Surr: 2-Fluorophenol	17.2	9.54-113		%REC	1	6/23/2010 4:31:49 PM
Surr: 4-Terphenyl-d14	59.3	22.7-145		%REC	1	6/23/2010 4:31:49 PM
Surr: Nitrobenzene-d5	86.6	14.6-134		%REC	1	6/23/2010 4:31:49 PM
Surr: Phenol-d5	39.8	10.7-80.3		%REC	1	6/23/2010 4:31:49 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	1500	50		µg/L	50	6/11/2010 6:43:09 PM
Toluene	6000	500		µg/L	500	6/11/2010 6:15:54 PM
Ethylbenzene	670	50		µg/L	50	6/11/2010 6:43:09 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,2,4-Trimethylbenzene	670	50		µg/L	50	6/11/2010 6:43:09 PM
1,3,5-Trimethylbenzene	220	50		µg/L	50	6/11/2010 6:43:09 PM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Naphthalene	250	100		µg/L	50	6/11/2010 6:43:09 PM
1-Methylnaphthalene	240	200		µg/L	50	6/11/2010 6:43:09 PM
2-Methylnaphthalene	450	200		µg/L	50	6/11/2010 6:43:09 PM
Acetone	ND	500		µg/L	50	6/11/2010 6:43:09 PM
Bromobenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Bromodichloromethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Bromoform	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Bromomethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
2-Butanone	ND	500		µg/L	50	6/11/2010 6:43:09 PM
Carbon disulfide	ND	500		µg/L	50	6/11/2010 6:43:09 PM
Carbon Tetrachloride	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Chlorobenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Chloroethane	ND	100		µg/L	50	6/11/2010 6:43:09 PM
Chloroform	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Chloromethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
2-Chlorotoluene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
4-Chlorotoluene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
cis-1,2-DCE	ND	50		µg/L	50	6/11/2010 6:43:09 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	6/11/2010 6:43:09 PM
Dibromochloromethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Dibromomethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM

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Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS Effluents
Lab Order:	1006379	**Collection Date:**	6/8/2010 9:52:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,4-Dichlorobenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Dichlorodifluoromethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,1-Dichloroethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,1-Dichloroethene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,2-Dichloropropane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,3-Dichloropropane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
2,2-Dichloropropane	ND	100		µg/L	50	6/11/2010 6:43:09 PM
1,1-Dichloropropene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Hexachlorobutadiene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
2-Hexanone	ND	500		µg/L	50	6/11/2010 6:43:09 PM
Isopropylbenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
4-Isopropyltoluene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	6/11/2010 6:43:09 PM
Methylene Chloride	ND	150		µg/L	50	6/11/2010 6:43:09 PM
n-Butylbenzene	62	50		µg/L	50	6/11/2010 6:43:09 PM
n-Propylbenzene	94	50		µg/L	50	6/11/2010 6:43:09 PM
sec-Butylbenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Styrene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
tert-Butylbenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	6/11/2010 6:43:09 PM
Tetrachloroethene (PCE)	ND	50		µg/L	50	6/11/2010 6:43:09 PM
trans-1,2-DCE	ND	50		µg/L	50	6/11/2010 6:43:09 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Trichloroethene (TCE)	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Trichlorofluoromethane	ND	50		µg/L	50	6/11/2010 6:43:09 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	6/11/2010 6:43:09 PM
Vinyl chloride	ND	50		µg/L	50	6/11/2010 6:43:09 PM
Xylenes, Total	3800	75		µg/L	50	6/11/2010 6:43:09 PM
Surr: 1,2-Dichloroethane-d4	81.5	54.6-141		%REC	50	6/11/2010 6:43:09 PM
Surr: 4-Bromofluorobenzene	91.7	60.1-133		%REC	50	6/11/2010 6:43:09 PM
Surr: Dibromofluoromethane	83.2	78.5-130		%REC	50	6/11/2010 6:43:09 PM
Surr: Toluene-d8	95.3	79.5-126		%REC	50	6/11/2010 6:43:09 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	3600	0.010		µmhos/cm	1	6/11/2010 5:34:00 PM

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- E *Estimated value*
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL *Practical Quantitation Limit*
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	NAPIS Effluents
Lab Order:	1006379	**Collection Date:**	6/8/2010 9:52:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SM4500-H+B: PH						Analyst: **NSB**
pH	9.04	0.1		pH units	1	6/11/2010 5:34:00 PM

Qualifiers:

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E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	AL2-EP1 Effluent
Lab Order:	1006379	**Collection Date:**	6/8/2010 10:18:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	66	3.0		mg/L	1	6/18/2010 10:25:58 AM
Motor Oil Range Organics (MRO)	17	15		mg/L	1	6/18/2010 10:25:58 AM
Surr: DNOP	122	86.9-151		%REC	1	6/18/2010 10:25:58 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.56	0.50		mg/L	10	6/17/2010 4:06:39 PM
Surr: BFB	103	55.2-107		%REC	10	6/17/2010 4:06:39 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	0.00082	0.00020		mg/L	1	6/15/2010 5:03:52 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 6:40:11 PM
Barium	0.037	0.020		mg/L	1	6/15/2010 6:40:11 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 6:40:11 PM
Calcium	40	1.0		mg/L	1	6/17/2010 11:48:22 AM
Chromium	0.0089	0.0060		mg/L	1	6/15/2010 6:40:11 PM
Copper	0.0068	0.0060		mg/L	1	6/15/2010 6:40:11 PM
Iron	6.5	0.20		mg/L	10	6/17/2010 11:52:22 AM
Lead	ND	0.0050		mg/L	1	6/15/2010 6:40:11 PM
Magnesium	13	1.0		mg/L	1	6/17/2010 11:48:22 AM
Manganese	0.13	0.0020		mg/L	1	6/15/2010 6:40:11 PM
Potassium	13	1.0		mg/L	1	6/17/2010 11:48:22 AM
Selenium	ND	0.050		mg/L	1	6/15/2010 6:40:11 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 6:40:11 PM
Sodium	850	10		mg/L	10	6/17/2010 11:52:22 AM
Zinc	0.064	0.050		mg/L	1	6/15/2010 6:40:11 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	0.023	0.020		mg/L	1	6/15/2010 4:53:43 PM
Barium	0.17	0.020		mg/L	1	6/15/2010 4:53:43 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 4:53:43 PM
Calcium	50	1.0		mg/L	1	6/15/2010 4:53:43 PM
Chromium	0.014	0.0060		mg/L	1	6/15/2010 4:53:43 PM
Copper	0.025	0.0060		mg/L	1	6/15/2010 4:53:43 PM
Iron	16	2.5		mg/L	50	6/17/2010 10:24:57 AM
Lead	0.0063	0.0050		mg/L	1	6/15/2010 4:53:43 PM
Magnesium	14	1.0		mg/L	1	6/15/2010 4:53:43 PM
Manganese	0.15	0.0020		mg/L	1	6/15/2010 4:53:43 PM
Potassium	16	1.0		mg/L	1	6/15/2010 4:53:43 PM
Selenium	ND	0.050		mg/L	1	6/15/2010 4:53:43 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	AL2-EP1 Effluent
Lab Order:	1006379	**Collection Date:**	6/8/2010 10:18:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Silver	ND	0.0050		mg/L	1	6/15/2010 4:53:43 PM
Sodium	860	50		mg/L	50	6/17/2010 10:24:57 AM
Zinc	0.33	0.050		mg/L	1	6/15/2010 4:53:43 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Toluene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Ethylbenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Naphthalene	ND	20		µg/L	10	6/14/2010 12:12:21 PM
1-Methylnaphthalene	ND	40		µg/L	10	6/14/2010 12:12:21 PM
2-Methylnaphthalene	ND	40		µg/L	10	6/14/2010 12:12:21 PM
Acetone	290	100		µg/L	10	6/14/2010 12:12:21 PM
Bromobenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Bromodichloromethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Bromoform	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Bromomethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
2-Butanone	ND	100		µg/L	10	6/14/2010 12:12:21 PM
Carbon disulfide	ND	100		µg/L	10	6/14/2010 12:12:21 PM
Carbon Tetrachloride	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Chlorobenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Chloroethane	ND	20		µg/L	10	6/14/2010 12:12:21 PM
Chloroform	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Chloromethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
2-Chlorotoluene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
4-Chlorotoluene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
cis-1,2-DCE	ND	10		µg/L	10	6/14/2010 12:12:21 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/14/2010 12:12:21 PM
Dibromochloromethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Dibromomethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Dichlorodifluoromethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,1-Dichloroethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,1-Dichloroethene	ND	10		µg/L	10	6/14/2010 12:12:21 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	AL2-EP1 Effluent
Lab Order:	1006379	**Collection Date:**	6/8/2010 10:18:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
1,2-Dichloropropane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,3-Dichloropropane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
2,2-Dichloropropane	ND	20		µg/L	10	6/14/2010 12:12:21 PM
1,1-Dichloropropene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Hexachlorobutadiene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
2-Hexanone	ND	100		µg/L	10	6/14/2010 12:12:21 PM
Isopropylbenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
4-Isopropyltoluene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	6/14/2010 12:12:21 PM
Methylene Chloride	ND	30		µg/L	10	6/14/2010 12:12:21 PM
n-Butylbenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
n-Propylbenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
sec-Butylbenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Styrene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
tert-Butylbenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/14/2010 12:12:21 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/14/2010 12:12:21 PM
trans-1,2-DCE	ND	10		µg/L	10	6/14/2010 12:12:21 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Trichloroethene (TCE)	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Trichlorofluoromethane	ND	10		µg/L	10	6/14/2010 12:12:21 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/14/2010 12:12:21 PM
Vinyl chloride	ND	10		µg/L	10	6/14/2010 12:12:21 PM
Xylenes, Total	ND	15		µg/L	10	6/14/2010 12:12:21 PM
Surr: 1,2-Dichloroethane-d4	81.1	54.6-141		%REC	10	6/14/2010 12:12:21 PM
Surr: 4-Bromofluorobenzene	85.7	60.1-133		%REC	10	6/14/2010 12:12:21 PM
Surr: Dibromofluoromethane	87.5	78.5-130		%REC	10	6/14/2010 12:12:21 PM
Surr: Toluene-d8	91.8	79.5-126		%REC	10	6/14/2010 12:12:21 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EP1
Lab Order:	1006379	**Collection Date:**	6/8/2010 10:55:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	86	3.0		mg/L	1	6/18/2010 10:59:48 AM
Motor Oil Range Organics (MRO)	19	15		mg/L	1	6/18/2010 10:59:48 AM
Surr: DNOP	121	86.9-151		%REC	1	6/18/2010 10:59:48 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.53	0.25		mg/L	5	6/17/2010 4:35:32 PM
Surr: BFB	114	55.2-107	S	%REC	5	6/17/2010 4:35:32 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Chloride	230	25		mg/L	50	6/26/2010 7:15:52 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Acenaphthene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Acenaphthylene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Aniline	130	50		µg/L	1	6/23/2010 5:01:57 PM
Anthracene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Azobenzene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Benz(a)anthracene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Benzo(a)pyrene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Benzoic acid	ND	100		µg/L	1	6/23/2010 5:01:57 PM
Benzyl alcohol	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/23/2010 5:01:57 PM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Butyl benzyl phthalate	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Carbazole	ND	50		µg/L	1	6/23/2010 5:01:57 PM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/23/2010 5:01:57 PM
4-Chloroaniline	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2-Chloronaphthalene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2-Chlorophenol	ND	50		µg/L	1	6/23/2010 5:01:57 PM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Chrysene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Di-n-butyl phthalate	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Di-n-octyl phthalate	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Dibenzofuran	ND	50		µg/L	1	6/23/2010 5:01:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EP1
Lab Order:	1006379	**Collection Date:**	6/8/2010 10:55:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
1,2-Dichlorobenzene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Diethyl phthalate	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Dimethyl phthalate	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2,4-Dichlorophenol	ND	100		µg/L	1	6/23/2010 5:01:57 PM
2,4-Dimethylphenol	87	50		µg/L	1	6/23/2010 5:01:57 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/23/2010 5:01:57 PM
2,4-Dinitrophenol	ND	100		µg/L	1	6/23/2010 5:01:57 PM
2,4-Dinitrotoluene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Fluoranthene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Fluorene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Hexachlorobenzene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Hexachlorobutadiene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Hexachloroethane	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Isophorone	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2-Methylnaphthalene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2-Methylphenol	210	50		µg/L	1	6/23/2010 5:01:57 PM
3+4-Methylphenol	220	50		µg/L	1	6/23/2010 5:01:57 PM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/23/2010 5:01:57 PM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/23/2010 5:01:57 PM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Naphthalene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2-Nitroaniline	ND	50		µg/L	1	6/23/2010 5:01:57 PM
3-Nitroaniline	ND	50		µg/L	1	6/23/2010 5:01:57 PM
4-Nitroaniline	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Nitrobenzene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2-Nitrophenol	ND	50		µg/L	1	6/23/2010 5:01:57 PM
4-Nitrophenol	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Pentachlorophenol	ND	100		µg/L	1	6/23/2010 5:01:57 PM
Phenanthrene	64	50		µg/L	1	6/23/2010 5:01:57 PM
Phenol	280	50		µg/L	1	6/23/2010 5:01:57 PM
Pyrene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
Pyridine	ND	50		µg/L	1	6/23/2010 5:01:57 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/23/2010 5:01:57 PM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/23/2010 5:01:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EP1
Lab Order:	1006379	**Collection Date:**	6/8/2010 10:55:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Surr: 2,4,6-Tribromophenol	64.0	16.6-150		%REC	1	6/23/2010 5:01:57 PM
Surr: 2-Fluorobiphenyl	54.3	19.6-134		%REC	1	6/23/2010 5:01:57 PM
Surr: 2-Fluorophenol	35.3	9.54-113		%REC	1	6/23/2010 5:01:57 PM
Surr: 4-Terphenyl-d14	61.0	22.7-145		%REC	1	6/23/2010 5:01:57 PM
Surr: Nitrobenzene-d5	50.2	14.6-134		%REC	1	6/23/2010 5:01:57 PM
Surr: Phenol-d5	30.8	10.7-80.3		%REC	1	6/23/2010 5:01:57 PM
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Toluene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Ethylbenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2,4-Trimethylbenzene	5.2	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,3,5-Trimethylbenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2-Dichloroethane (EDC)	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2-Dibromoethane (EDB)	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Naphthalene	ND	10		µg/L	5	6/14/2010 1:09:26 PM
1-Methylnaphthalene	26	20		µg/L	5	6/14/2010 1:09:26 PM
2-Methylnaphthalene	35	20		µg/L	5	6/14/2010 1:09:26 PM
Acetone	330	50		µg/L	5	6/14/2010 1:09:26 PM
Bromobenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Bromodichloromethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Bromoform	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Bromomethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
2-Butanone	ND	50		µg/L	5	6/14/2010 1:09:26 PM
Carbon disulfide	ND	50		µg/L	5	6/14/2010 1:09:26 PM
Carbon Tetrachloride	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Chlorobenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Chloroethane	ND	10		µg/L	5	6/14/2010 1:09:26 PM
Chloroform	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Chloromethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
2-Chlorotoluene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
4-Chlorotoluene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
cis-1,2-DCE	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	5	6/14/2010 1:09:26 PM
Dibromochloromethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Dibromomethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EP1
Lab Order:	1006379	**Collection Date:**	6/8/2010 10:55:00 AM
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Dichlorodifluoromethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,1-Dichloroethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,1-Dichloroethene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2-Dichloropropane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,3-Dichloropropane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
2,2-Dichloropropane	ND	10		µg/L	5	6/14/2010 1:09:26 PM
1,1-Dichloropropene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Hexachlorobutadiene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
2-Hexanone	ND	50		µg/L	5	6/14/2010 1:09:26 PM
Isopropylbenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
4-Isopropyltoluene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
4-Methyl-2-pentanone	ND	50		µg/L	5	6/14/2010 1:09:26 PM
Methylene Chloride	ND	15		µg/L	5	6/14/2010 1:09:26 PM
n-Butylbenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
n-Propylbenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
sec-Butylbenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Styrene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
tert-Butylbenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,1,2,2-Tetrachloroethane	ND	10		µg/L	5	6/14/2010 1:09:26 PM
Tetrachloroethene (PCE)	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
trans-1,2-DCE	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2,3-Trichlorobenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Trichloroethene (TCE)	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Trichlorofluoromethane	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
1,2,3-Trichloropropane	ND	10		µg/L	5	6/14/2010 1:09:26 PM
Vinyl chloride	ND	5.0		µg/L	5	6/14/2010 1:09:26 PM
Xylenes, Total	ND	7.5		µg/L	5	6/14/2010 1:09:26 PM
Surr: 1,2-Dichloroethane-d4	76.6	54.6-141		%REC	5	6/14/2010 1:09:26 PM
Surr: 4-Bromofluorobenzene	88.7	60.1-133		%REC	5	6/14/2010 1:09:26 PM
Surr: Dibromofluoromethane	82.7	78.5-130		%REC	5	6/14/2010 1:09:26 PM
Surr: Toluene-d8	86.4	79.5-126		%REC	5	6/14/2010 1:09:26 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	7.79	0.1		pH units	1	6/11/2010 5:47:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1006379	**Collection Date:**	
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-04	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Toluene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Ethylbenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Naphthalene	ND	2.0		µg/L	1	6/11/2010 9:32:47 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/11/2010 9:32:47 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/11/2010 9:32:47 PM
Acetone	ND	10		µg/L	1	6/11/2010 9:32:47 PM
Bromobenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Bromodichloromethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Bromoform	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Bromomethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
2-Butanone	ND	10		µg/L	1	6/11/2010 9:32:47 PM
Carbon disulfide	ND	10		µg/L	1	6/11/2010 9:32:47 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Chlorobenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Chloroethane	ND	2.0		µg/L	1	6/11/2010 9:32:47 PM
Chloroform	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Chloromethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
2-Chlorotoluene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
4-Chlorotoluene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
cis-1,2-DCE	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/11/2010 9:32:47 PM
Dibromochloromethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Dibromomethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/11/2010 9:32:47 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1006379	**Collection Date:**	
Project:	2nd Qtr Effluents	**Date Received:**	6/10/2010
Lab ID:	1006379-04	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
2-Hexanone	ND	10		µg/L	1	6/11/2010 9:32:47 PM
Isopropylbenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/11/2010 9:32:47 PM
Methylene Chloride	ND	3.0		µg/L	1	6/11/2010 9:32:47 PM
n-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
n-Propylbenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
sec-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Styrene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
tert-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/11/2010 9:32:47 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
trans-1,2-DCE	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/11/2010 9:32:47 PM
Vinyl chloride	ND	1.0		µg/L	1	6/11/2010 9:32:47 PM
Xylenes, Total	ND	1.5		µg/L	1	6/11/2010 9:32:47 PM
Surr: 1,2-Dichloroethane-d4	79.1	54.6-141		%REC	1	6/11/2010 9:32:47 PM
Surr: 4-Bromofluorobenzene	94.4	60.1-133		%REC	1	6/11/2010 9:32:47 PM
Surr: Dibromofluoromethane	83.9	78.5-130		%REC	1	6/11/2010 9:32:47 PM
Surr: Toluene-d8	93.6	79.5-126		%REC	1	6/11/2010 9:32:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

LABORATORY ANALYTICAL REPORT

Client: Hall Environmental
Project: 1006379
Lab ID: B10061174-001
Client Sample ID 1006379-03D, EP1

Report Date: 06/17/10
Collection Date: 06/08/10 10:55
DateReceived: 06/11/10
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	550	mg/L	D	50		E410.4	06/16/10 16:30 / klc

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Client: Hall Environmental
Project: 1006379

Report Date: 06/17/10
Work Order: B10061174

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E410.4										Batch: R149210
Sample ID: MB-R149210		Method Blank				Run: SPEC2_100416B				06/16/10 16:30
Oxygen Demand, Chemical (COD)		ND	mg/L	5						
Sample ID: LCS-R149210		Laboratory Control Sample				Run: SPEC2_100416B				06/16/10 16:30
Oxygen Demand, Chemical (COD)		86.4	mg/L	5.0	104	90	110			
Sample ID: LFB		Laboratory Fortified Blank				Run: SPEC2_100416B				06/16/10 16:30
Oxygen Demand, Chemical (COD)		26.8	mg/L	5.0	110	90	110			
Sample ID: B10061504-01BMS		Sample Matrix Spike				Run: SPEC2_100416B				06/16/10 16:30
Oxygen Demand, Chemical (COD)		33.7	mg/L	5.0	105	90	110			
Sample ID: B10061504-001BMSD		Sample Matrix Spike Duplicate				Run: SPEC2_100416B				06/16/10 16:30
Oxygen Demand, Chemical (COD)		33.9	mg/L	5.0	106	90	110	0.6	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R39501**	Analysis Date:		6/25/2010 5:02:49 PM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R39513**	Analysis Date:		6/27/2010 6:55:35 PM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R39501**	Analysis Date:		6/25/2010 5:20:14 PM	
Fluoride	0.5321	mg/L	0.10	0.5	0	106	90	110			
Chloride	4.937	mg/L	0.50	5	0	98.7	90	110			
Bromide	2.485	mg/L	0.10	2.5	0	99.4	90	110			
Nitrate (As N)+Nitrite (As N)	3.435	mg/L	0.20	3.5	0	98.1	90	110			
Phosphorus, Orthophosphate (As P)	4.958	mg/L	0.50	5	0	99.2	90	110			
Sulfate	9.820	mg/L	0.50	10	0	98.2	90	110			
Sample ID: LCS-b		*LCS*				Batch ID:	**R39513**	Analysis Date:		6/27/2010 10:24:28 PM	
Fluoride	0.5344	mg/L	0.10	0.5	0	107	90	110			
Chloride	4.765	mg/L	0.50	5	0	95.3	90	110			
Bromide	2.477	mg/L	0.10	2.5	0	99.1	90	110			
Nitrate (As N)+Nitrite (As N)	3.428	mg/L	0.20	3.5	0	98.0	90	110			
Phosphorus, Orthophosphate (As P)	4.925	mg/L	0.50	5	0	98.5	90	110			
Sulfate	9.967	mg/L	0.50	10	0	99.7	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-22630		*MBLK*				Batch ID:	**22630**	Analysis Date:		6/18/2010 7:03:57 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-22630		*LCS*				Batch ID:	**22630**	Analysis Date:		6/18/2010 7:37:16 AM	
Diesel Range Organics (DRO)	5.768	mg/L	1.0	5	0	115	74	157			
Sample ID: LCSD-22630		*LCSD*				Batch ID:	**22630**	Analysis Date:		6/18/2010 8:10:51 AM	
Diesel Range Organics (DRO)	5.624	mg/L	1.0	5	0	112	74	157	2.52	23	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID: **R39339**		Analysis Date:		6/17/2010 9:39:29 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R39339**		Analysis Date:		6/17/2010 2:39:56 PM	
Gasoline Range Organics (GRO)	0.5426	mg/L	0.050	0.5	0	109	77.8	124			
Sample ID: 2.5UG GRO LCSD		*LCSD*				Batch ID: **R39339**		Analysis Date:		6/17/2010 3:08:50 PM	
Gasoline Range Organics (GRO)	0.5168	mg/L	0.050	0.5	0	103	77.8	124	4.87	10.3	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5mL rb		*MBLK*				Batch ID: **R39246**		Analysis Date:	6/11/2010 9:37:14 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5mL rb		*MBLK*				Batch ID: **R39246**		Analysis Date:	6/11/2010 9:37:14 AM		
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 5ml rb		*MBLK*				Batch ID: **R39254**		Analysis Date:	6/14/2010 9:46:00 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*				Batch ID: **R39254**		Analysis Date:	6/14/2010 9:46:00 AM		
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100NG LCS-B		*LCS*				Batch ID: **R39246**		Analysis Date:	6/11/2010 11:30:02 AM		

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 100NG LCS-B		*LCS*				Batch ID:	**R39246**	Analysis Date:	6/11/2010 11:30:02 AM		
Benzene	21.24	µg/L	1.0	20	0	106	82.4	116			
Toluene	20.63	µg/L	1.0	20	0	103	89.5	123			
Chlorobenzene	19.76	µg/L	1.0	20	0	98.8	87.8	120			
1,1-Dichloroethene	24.02	µg/L	1.0	20	0	120	90.3	138			
Trichloroethene (TCE)	19.00	µg/L	1.0	20	0	95.0	64	129			
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R39254**	Analysis Date:	6/14/2010 10:42:24 AM		
Benzene	19.99	µg/L	1.0	20	0	99.9	82.4	116			
Toluene	20.77	µg/L	1.0	20	0	104	89.5	123			
Chlorobenzene	20.45	µg/L	1.0	20	0	102	87.8	120			
1,1-Dichloroethene	22.44	µg/L	1.0	20	0	112	90.3	138			
Trichloroethene (TCE)	19.11	µg/L	1.0	20	0	95.6	64	129			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-22649		*MBLK*				Batch ID: **22649**		Analysis Date: 6/23/2010 3:00:45 PM			
Acenaphthene	ND	µg/L	10								
Acenaphthylene	ND	µg/L	10								
Aniline	ND	µg/L	10								
Anthracene	ND	µg/L	10								
Azobenzene	ND	µg/L	10								
Benz(a)anthracene	ND	µg/L	10								
Benzo(a)pyrene	ND	µg/L	10								
Benzo(b)fluoranthene	ND	µg/L	10								
Benzo(g,h,i)perylene	ND	µg/L	10								
Benzo(k)fluoranthene	ND	µg/L	10								
Benzoic acid	ND	µg/L	20								
Benzyl alcohol	ND	µg/L	10								
Bis(2-chloroethoxy)methane	ND	µg/L	10								
Bis(2-chloroethyl)ether	ND	µg/L	10								
Bis(2-chloroisopropyl)ether	ND	µg/L	10								
Bis(2-ethylhexyl)phthalate	ND	µg/L	10								
4-Bromophenyl phenyl ether	ND	µg/L	10								
Butyl benzyl phthalate	ND	µg/L	10								
Carbazole	ND	µg/L	10								
4-Chloro-3-methylphenol	ND	µg/L	10								
4-Chloroaniline	ND	µg/L	10								
2-Chloronaphthalene	ND	µg/L	10								
2-Chlorophenol	ND	µg/L	10								
4-Chlorophenyl phenyl ether	ND	µg/L	10								
Chrysene	ND	µg/L	10								
Di-n-butyl phthalate	ND	µg/L	10								
Di-n-octyl phthalate	ND	µg/L	10								
Dibenz(a,h)anthracene	ND	µg/L	10								
Dibenzofuran	ND	µg/L	10								
1,2-Dichlorobenzene	ND	µg/L	10								
1,3-Dichlorobenzene	ND	µg/L	10								
1,4-Dichlorobenzene	ND	µg/L	10								
3,3'-Dichlorobenzidine	ND	µg/L	10								
Diethyl phthalate	ND	µg/L	10								
Dimethyl phthalate	ND	µg/L	10								
2,4-Dichlorophenol	ND	µg/L	20								
2,4-Dimethylphenol	ND	µg/L	10								
4,6-Dinitro-2-methylphenol	ND	µg/L	20								
2,4-Dinitrophenol	ND	µg/L	20								
2,4-Dinitrotoluene	ND	µg/L	10								
2,6-Dinitrotoluene	ND	µg/L	10								
Fluoranthene	ND	µg/L	10								
Fluorene	ND	µg/L	10								
Hexachlorobenzene	ND	µg/L	10								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-22649		*MBLK*				Batch ID:	**22649**	Analysis Date:		6/23/2010 3:00:45 PM	
Hexachlorobutadiene	ND	µg/L	10								
Hexachlorocyclopentadiene	ND	µg/L	10								
Hexachloroethane	ND	µg/L	10								
Indeno(1,2,3-cd)pyrene	ND	µg/L	10								
Isophorone	ND	µg/L	10								
2-Methylnaphthalene	ND	µg/L	10								
2-Methylphenol	ND	µg/L	10								
3+4-Methylphenol	ND	µg/L	10								
N-Nitrosodi-n-propylamine	ND	µg/L	10								
N-Nitrosodimethylamine	ND	µg/L	10								
N-Nitrosodiphenylamine	ND	µg/L	10								
Naphthalene	ND	µg/L	10								
2-Nitroaniline	ND	µg/L	10								
3-Nitroaniline	ND	µg/L	10								
4-Nitroaniline	ND	µg/L	10								
Nitrobenzene	ND	µg/L	10								
2-Nitrophenol	ND	µg/L	10								
4-Nitrophenol	ND	µg/L	10								
Pentachlorophenol	ND	µg/L	20								
Phenanthrene	ND	µg/L	10								
Phenol	ND	µg/L	10								
Pyrene	ND	µg/L	10								
Pyridine	ND	µg/L	10								
1,2,4-Trichlorobenzene	ND	µg/L	10								
2,4,5-Trichlorophenol	ND	µg/L	10								
2,4,6-Trichlorophenol	ND	µg/L	10								
Sample ID: lcs-22649		*LCS*				Batch ID:	**22649**	Analysis Date:		6/23/2010 3:31:12 PM	
Acenaphthene	80.44	µg/L	10	100	0	80.4	29.3	113			
4-Chloro-3-methylphenol	136.4	µg/L	10	200	0	68.2	23.3	123			
2-Chlorophenol	142.4	µg/L	10	200	0	71.2	23.9	112			
1,4-Dichlorobenzene	73.00	µg/L	10	100	0	73.0	16.5	106			
2,4-Dinitrotoluene	77.84	µg/L	10	100	0	77.8	27.7	126			
N-Nitrosodi-n-propylamine	68.24	µg/L	10	100	0	68.2	25.9	113			
4-Nitrophenol	91.94	µg/L	10	200	0	46.0	13.2	76.7			
Pentachlorophenol	186.1	µg/L	20	200	0	93.1	22.4	121			
Phenol	72.14	µg/L	10	200	0	36.1	15.3	68.3			
Pyrene	71.70	µg/L	10	100	2.8	68.9	23.5	119			
1,2,4-Trichlorobenzene	76.84	µg/L	10	100	0	76.8	23	107			
Sample ID: lcsd-22649		*LCSD*				Batch ID:	**22649**	Analysis Date:		6/23/2010 4:01:37 PM	
Acenaphthene	83.86	µg/L	10	100	0	83.9	29.3	113	4.16	30.5	
4-Chloro-3-methylphenol	169.6	µg/L	10	200	0	84.8	23.3	123	21.6	28.6	
2-Chlorophenol	144.1	µg/L	10	200	0	72.0	23.9	112	1.19	107	
1,4-Dichlorobenzene	67.98	µg/L	10	100	0	68.0	16.5	106	7.12	62.1	
2,4-Dinitrotoluene	90.38	µg/L	10	100	0	90.4	27.7	126	14.9	14.7	R

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-22649		*LCSD*				Batch ID:	**22649**	Analysis Date:		6/23/2010 4:01:37 PM	
N-Nitrosodi-n-propylamine	72.48	µg/L	10	100	0	72.5	25.9	113	6.03	30.3	
4-Nitrophenol	130.8	µg/L	10	200	0	65.4	13.2	76.7	34.9	36.3	
Pentachlorophenol	193.6	µg/L	20	200	0	96.8	22.4	121	3.94	49	
Phenol	77.48	µg/L	10	200	0	38.7	15.3	68.3	7.14	52.4	
Pyrene	62.34	µg/L	10	100	2.8	59.5	23.5	119	14.0	16.3	
1,2,4-Trichlorobenzene	78.46	µg/L	10	100	0	78.5	23	107	2.09	36.4	
Method: EPA Method 7470: Mercury											
Sample ID: MB-22641		*MBLK*				Batch ID:	**22641**	Analysis Date:		6/15/2010 4:42:02 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-22641		*LCS*				Batch ID:	**22641**	Analysis Date:		6/15/2010 4:43:48 PM	
Mercury	0.005270	mg/L	0.00020	0.005	0	105	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		*MBLK*				Batch ID: **R39277**		Analysis Date:	6/15/2010 3:40:09 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.020								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Manganese	ND	mg/L	0.0020								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Zinc	ND	mg/L	0.050								
Sample ID: MB		*MBLK*				Batch ID: **R39313**		Analysis Date:	6/17/2010 9:58:18 AM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.020								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Manganese	ND	mg/L	0.0020								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Zinc	ND	mg/L	0.050								
Sample ID: LCS		*LCS*				Batch ID: **R39277**		Analysis Date:	6/15/2010 3:43:18 PM		
Arsenic	0.5066	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4994	mg/L	0.020	0.5	0	99.9	80	120			
Cadmium	0.5038	mg/L	0.0020	0.5	0	101	80	120			
Calcium	50.52	mg/L	1.0	50.5	0	100	80	120			
Chromium	0.5029	mg/L	0.0060	0.5	0	101	80	120			
Copper	0.5393	mg/L	0.0060	0.5	0.0009	108	80	120			
Iron	0.5210	mg/L	0.020	0.5	0	104	80	120			
Lead	0.5017	mg/L	0.0050	0.5	0	100	80	120			
Magnesium	51.05	mg/L	1.0	50.5	0	101	80	120			
Manganese	0.4955	mg/L	0.0020	0.5	0	99.1	80	120			
Potassium	54.59	mg/L	1.0	55	0	99.3	80	120			
Selenium	0.5250	mg/L	0.050	0.5	0	105	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: LCS		*LCS*				Batch ID:	**R39277**	Analysis Date:	6/15/2010 3:43:18 PM		
Silver	0.5128	mg/L	0.0050	0.5	0	103	80	120			
Sodium	54.15	mg/L	1.0	50.5	0	107	80	120			
Zinc	0.4962	mg/L	0.050	0.5	0	99.2	80	120			
Sample ID: LCS		*LCS*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 10:01:05 AM		
Arsenic	0.5043	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4713	mg/L	0.020	0.5	0	94.3	80	120			
Cadmium	0.4886	mg/L	0.0020	0.5	0	97.7	80	120			
Calcium	49.15	mg/L	1.0	50.5	0	97.3	80	120			
Chromium	0.4798	mg/L	0.0060	0.5	0	96.0	80	120			
Copper	0.4992	mg/L	0.0060	0.5	0	99.8	80	120			
Iron	0.4878	mg/L	0.020	0.5	0	97.6	80	120			
Lead	0.4875	mg/L	0.0050	0.5	0	97.5	80	120			
Magnesium	49.46	mg/L	1.0	50.5	0	97.9	80	120			
Manganese	0.4685	mg/L	0.0020	0.5	0.0001	93.7	80	120			
Potassium	51.94	mg/L	1.0	55	0	94.4	80	120			
Selenium	0.4898	mg/L	0.050	0.5	0	98.0	80	120			
Silver	0.4889	mg/L	0.0050	0.5	0	97.8	80	120			
Sodium	51.81	mg/L	1.0	50.5	0	103	80	120			
Zinc	0.4822	mg/L	0.050	0.5	0	96.4	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr Effluents **Work Order:** 1006379

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverble Metals											
Sample ID: MB-22623		*MBLK*				Batch ID: **22623**		Analysis Date: 6/15/2010 3:46:26 PM			
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.050								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Manganese	ND	mg/L	0.0020								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Zinc	ND	mg/L	0.020								
Sample ID: LCS-22623		*LCS*				Batch ID: **22623**		Analysis Date: 6/15/2010 3:49:37 PM			
Arsenic	0.5208	mg/L	0.020	0.5	0	104	80	120			
Barium	0.5080	mg/L	0.020	0.5	0	102	80	120			
Cadmium	0.5068	mg/L	0.0020	0.5	0.0003	101	80	120			
Calcium	51.61	mg/L	1.0	50	0	103	80	120			
Chromium	0.5167	mg/L	0.0060	0.5	0.001	103	80	120			
Copper	0.5769	mg/L	0.0060	0.5	0.0038	115	80	120			
Iron	0.5466	mg/L	0.050	0.5	0	109	80	120			
Lead	0.5119	mg/L	0.0050	0.5	0	102	80	120			
Magnesium	52.36	mg/L	1.0	50	0	105	80	120			
Manganese	0.5091	mg/L	0.0020	0.5	0	102	80	120			
Potassium	55.62	mg/L	1.0	50	0.0563	111	80	120			
Selenium	0.5104	mg/L	0.050	0.5	0	102	80	120			
Silver	0.5186	mg/L	0.0050	0.5	0.0002	104	80	120			
Sodium	55.48	mg/L	1.0	50	0.06	111	80	120			
Zinc	0.4915	mg/L	0.020	0.5	0.0021	97.9	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/10/2010**

Work Order Number **1006379** Received by: **AT**

Checklist completed by: _____ 6/10/10 Sample ID labels checked by: _____
Signature Date Initials

Matrix: Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☐	No ☑		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	**3.1°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 10

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: per CJ do not analyze BOD; will resample/ph 6/11/10

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Gallup Refinery

Mailing Address: Rt 3 Box 7 Gallup, NM 87301

Phone #: 505 722 3833

email or Fax#: 505 722 0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: 2nd QTR Effluents

Project #:

Project Manager: CJohnson

Sampler: CJohnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1006379	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA) + MTBE	8270 (Semi-VOA)	WQCC Metals - Total	WQCC Metals - Diss	Gen Chem		Air Bubbles (Y or N)
6/8/10	0952	H2O	WAPIS Effluents	3-40ml	HCl	1										X						
				3 40ml	HCl	1			X													
				1-L		1											X					
				2-500ml	HNO3	1												X				
				2-125ml	HNO3	1													X			
				1-125ml	H2SO4	1														X		
				1-250ml	None	1														X		
	1018		AL2-EP1 Effluent	3-40ml	HCl	2										X						
				3 40ml	HCl	2			X													
				2 500ml	HNO3	2												X				
				2-125ml	HNO3	2													X			
				1-125ml	H2SO4															X		

Remarks: Gen Chem: Cations, Anions, pH, Spec Cond.

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/8/10	1310				
Date:	Time:	Relinquished by:	Received by:	Date	Time
				6/8/10	1020

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining
Gallup Refinery
Mailing Address: Rt 3 Box 7
Gallup, NM 87301
Phone #: 505 722 3833
email or Fax#: 505 722 - 0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other ____________

☐ EDD (Type) ____________

Turn-Around Time:
☒ Standard ☐ Rush ____________

Project Name: 2nd Qtr Effluents

Project #:

Project Manager: C Johnson

Sampler: C Johnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.1°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1006379	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	BOD (no BOD AT [illegible])	COD	Chloride, pH		Air Bubbles (Y or N)
6/8/10	1055	H2O	EP1	3.40 ml	HCl	3										X						
|	|	|	/	3.40 ml	HCl	3			X													
|	|	|	/	1L	None	3											X					
|	|	|	/	500ml	None	3												X				
|	|	|	/	250ml	H2SO4	3													X			
|	|	|	/	500ml	None	3														X		
			Trip Blank			4																

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/8/10	1310	[signature]	[signature]	6/10/10	1020
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chavez, Carl J, EMNRD

From: Johnson, Cheryl [Cheryl.Johnson@wnr.com]
Sent: Monday, June 21, 2010 10:23 AM
To: Van Horn, Kristen, NMENV
Cc: Chavez, Carl J, EMNRD; Riege, Ed; Lieb, Jim; Larsen, Thurman
Subject: 2ND Quarter Results - OW 13, 14, 29, 30, 50, 52 and Influents to AL1, AL2 and EP1.
Attachments: 2nd QTR 0W WELLS, 2010.pdf; 2ND QTR Influents, 2010.pdf; 2nd QTR 0W WELLS 6-11-10.pdf

Good morning, attached are the sampling results for the second quarter sampling event. OW-13 shows an increase of MTBE of 0.0027 mg/L versus last quarter of 0.0023 mg/L. OW-29 MTBE 0.15 mg/L an increase from last quarter from 0.12 mg/L exceeding the RRSL standard of 0.012 mg/L. Please call or e-mail if you require more information. Thank you.

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
Route 3 Box 7
Gallup, NM 87301
505 722 0231 Direct
505 722 0210 Fax
505 722 3833 Main
cheryl.johnson@wnr.com

Safety starts with "S", but always begins with "You"

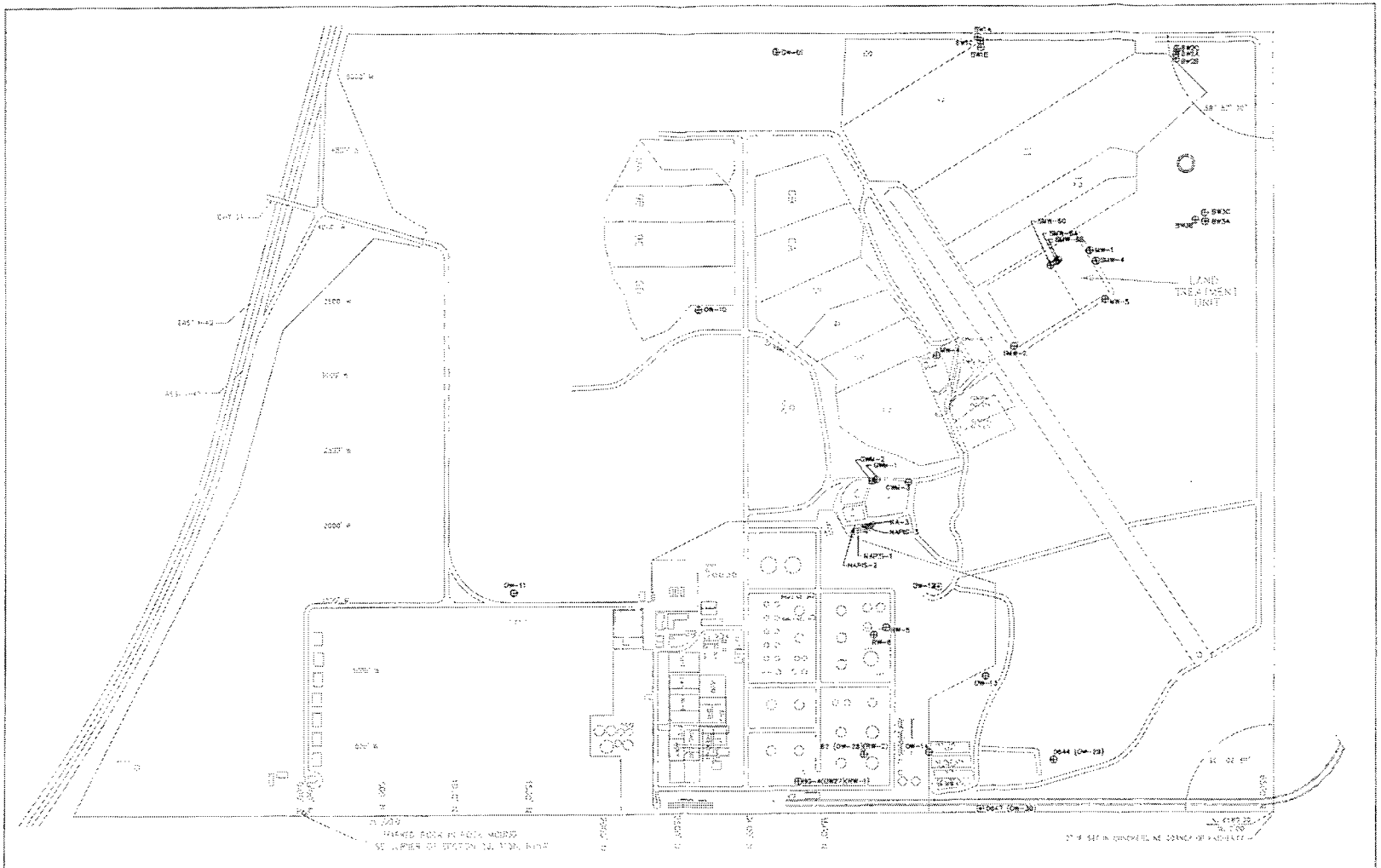

Figure 6
Well Locations

File: 05-054

Western Refining - Gallup Refinery
Interstate 40, Exit 39
Jamestown, New Mexico 87347
Date: August 22, 2007

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, June 18, 2010

Cheryl Johnson
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: 2nd Qtr 2010 OW Wells

Order No.: 1006175

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 6/4/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1006175	**Collection Date:**	6/1/2010 10:20:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/7/2010 12:48:29 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/7/2010 12:48:29 PM
Surr: DNOP	122	86.9-151		%REC	1	6/7/2010 12:48:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/10/2010 11:31:44 AM
Surr: BFB	94.6	55.2-107		%REC	1	6/10/2010 11:31:44 AM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.53	0.10		mg/L	1	6/8/2010 2:50:02 PM
Chloride	27	10		mg/L	20	6/8/2010 12:48:11 PM
Bromide	0.22	0.10		mg/L	1	6/8/2010 2:50:02 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	6/9/2010 1:23:23 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/8/2010 2:50:02 PM
Sulfate	140	10		mg/L	20	6/8/2010 12:48:11 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/8/2010 4:08:21 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 6:16:36 PM
Barium	0.040	0.020		mg/L	1	6/15/2010 6:16:36 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 6:16:36 PM
Calcium	20	1.0		mg/L	1	6/17/2010 11:13:05 AM
Chromium	ND	0.0060		mg/L	1	6/15/2010 6:16:36 PM
Copper	ND	0.0060		mg/L	1	6/15/2010 6:16:36 PM
Iron	ND	0.020		mg/L	1	6/17/2010 11:13:05 AM
Lead	ND	0.0050		mg/L	1	6/15/2010 6:16:36 PM
Magnesium	3.4	1.0		mg/L	1	6/17/2010 11:13:05 AM
Manganese	0.083	0.0020		mg/L	1	6/15/2010 6:16:36 PM
Potassium	ND	1.0		mg/L	1	6/17/2010 11:13:05 AM
Selenium	ND	0.050		mg/L	1	6/15/2010 6:16:36 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 6:16:36 PM
Sodium	220	5.0		mg/L	5	6/17/2010 11:25:55 AM
Zinc	ND	0.050		mg/L	1	6/15/2010 6:16:36 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/10/2010 11:33:31 AM
Barium	0.042	0.020		mg/L	1	6/10/2010 11:33:31 AM
Cadmium	ND	0.0020		mg/L	1	6/10/2010 11:33:31 AM
Chromium	ND	0.0060		mg/L	1	6/10/2010 11:33:31 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1006175	**Collection Date:**	6/1/2010 10:20:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Lead	ND	0.0050		mg/L	1	6/10/2010 11:33:31 AM
Selenium	ND	0.050		mg/L	1	6/10/2010 11:33:31 AM
Silver	ND	0.0050		mg/L	1	6/10/2010 11:33:31 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Acenaphthene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Acenaphthylene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Aniline	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Anthracene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Azobenzene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Benz(a)anthracene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Benzo(a)pyrene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Benzoic acid	ND	20		µg/L	1	6/8/2010 5:29:57 PM
Benzyl alcohol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/8/2010 5:29:57 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Butyl benzyl phthalate	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Carbazole	ND	10		µg/L	1	6/8/2010 5:29:57 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
4-Chloroaniline	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2-Chloronaphthalene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2-Chlorophenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Chrysene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Di-n-butyl phthalate	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Di-n-octyl phthalate	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Dibenzofuran	ND	10		µg/L	1	6/8/2010 5:29:57 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Diethyl phthalate	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Dimethyl phthalate	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2,4-Dichlorophenol	ND	20		µg/L	1	6/8/2010 5:29:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1006175	**Collection Date:**	6/1/2010 10:20:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
2,4-Dimethylphenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/8/2010 5:29:57 PM
2,4-Dinitrophenol	ND	20		µg/L	1	6/8/2010 5:29:57 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Fluoranthene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Fluorene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Hexachlorobenzene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Hexachlorobutadiene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Hexachloroethane	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Isophorone	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2-Methylnaphthalene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2-Methylphenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
3+4-Methylphenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/8/2010 5:29:57 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/8/2010 5:29:57 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Naphthalene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2-Nitroaniline	ND	10		µg/L	1	6/8/2010 5:29:57 PM
3-Nitroaniline	ND	10		µg/L	1	6/8/2010 5:29:57 PM
4-Nitroaniline	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Nitrobenzene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2-Nitrophenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
4-Nitrophenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Pentachlorophenol	ND	20		µg/L	1	6/8/2010 5:29:57 PM
Phenanthrene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Phenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Pyrene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Pyridine	ND	10		µg/L	1	6/8/2010 5:29:57 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/8/2010 5:29:57 PM
Surr: 2,4,6-Tribromophenol	54.2	16.6-150		%REC	1	6/8/2010 5:29:57 PM
Surr: 2-Fluorobiphenyl	51.9	19.6-134		%REC	1	6/8/2010 5:29:57 PM
Surr: 2-Fluorophenol	34.1	9.54-113		%REC	1	6/8/2010 5:29:57 PM
Surr: 4-Terphenyl-d14	35.0	22.7-145		%REC	1	6/8/2010 5:29:57 PM
Surr: Nitrobenzene-d5	51.8	14.6-134		%REC	1	6/8/2010 5:29:57 PM
Surr: Phenol-d5	27.2	10.7-80.3		%REC	1	6/8/2010 5:29:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1006175	**Collection Date:**	6/1/2010 10:20:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Toluene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Ethylbenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Naphthalene	ND	2.0		µg/L	1	6/9/2010 6:38:00 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/9/2010 6:38:00 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/9/2010 6:38:00 AM
Acetone	ND	10		µg/L	1	6/9/2010 6:38:00 AM
Bromobenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Bromoform	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Bromomethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
2-Butanone	ND	10		µg/L	1	6/9/2010 6:38:00 AM
Carbon disulfide	ND	10		µg/L	1	6/9/2010 6:38:00 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Chlorobenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Chloroethane	ND	2.0		µg/L	1	6/9/2010 6:38:00 AM
Chloroform	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Chloromethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/9/2010 6:38:00 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Dibromomethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/9/2010 6:38:00 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-50
Lab Order:	1006175	**Collection Date:**	6/1/2010 10:20:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
2-Hexanone	ND	10		µg/L	1	6/9/2010 6:38:00 AM
Isopropylbenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/9/2010 6:38:00 AM
Methylene Chloride	ND	3.0		µg/L	1	6/9/2010 6:38:00 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Styrene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/9/2010 6:38:00 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/9/2010 6:38:00 AM
Vinyl chloride	ND	1.0		µg/L	1	6/9/2010 6:38:00 AM
Xylenes, Total	ND	1.5		µg/L	1	6/9/2010 6:38:00 AM
Surr: 1,2-Dichloroethane-d4	85.3	54.6-141		%REC	1	6/9/2010 6:38:00 AM
Surr: 4-Bromofluorobenzene	102	60.1-133		%REC	1	6/9/2010 6:38:00 AM
Surr: Dibromofluoromethane	94.5	78.5-130		%REC	1	6/9/2010 6:38:00 AM
Surr: Toluene-d8	100	79.5-126		%REC	1	6/9/2010 6:38:00 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	1000	0.010		µmhos/cm	1	6/4/2010 4:22:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	8.35	0.1		pH units	1	6/4/2010 4:22:00 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1006175	**Collection Date:**	6/1/2010 11:58:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/7/2010 1:22:19 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	6/7/2010 1:22:19 PM
Surr: DNOP	116	86.9-151		%REC	1	6/7/2010 1:22:19 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/10/2010 12:29:36 PM
Surr: BFB	93.6	55.2-107		%REC	1	6/10/2010 12:29:36 PM
EPA METHOD 300.0: ANIONS						Analyst: **LJB**
Fluoride	0.52	0.10		mg/L	1	6/8/2010 4:17:04 PM
Chloride	28	10		mg/L	20	6/8/2010 1:05:36 PM
Bromide	0.15	0.10		mg/L	1	6/8/2010 4:17:04 PM
Nitrate (As N)+Nitrite (As N)	ND	1.0		mg/L	5	6/9/2010 1:40:48 AM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	6/8/2010 4:17:04 PM
Sulfate	140	10		mg/L	20	6/8/2010 1:05:36 PM
EPA METHOD 7470: MERCURY						Analyst: **IC**
Mercury	ND	0.00020		mg/L	1	6/8/2010 4:10:08 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/15/2010 6:23:51 PM
Barium	0.026	0.020		mg/L	1	6/15/2010 6:23:51 PM
Cadmium	ND	0.0020		mg/L	1	6/15/2010 6:23:51 PM
Calcium	4.0	1.0		mg/L	1	6/17/2010 11:31:25 AM
Chromium	ND	0.0060		mg/L	1	6/15/2010 6:23:51 PM
Copper	ND	0.0060		mg/L	1	6/15/2010 6:23:51 PM
Iron	0.058	0.020		mg/L	1	6/17/2010 11:31:25 AM
Lead	ND	0.0050		mg/L	1	6/15/2010 6:23:51 PM
Magnesium	ND	1.0		mg/L	1	6/17/2010 11:31:25 AM
Manganese	0.032	0.0020		mg/L	1	6/15/2010 6:23:51 PM
Potassium	1.2	1.0		mg/L	1	6/17/2010 11:31:25 AM
Selenium	ND	0.050		mg/L	1	6/15/2010 6:23:51 PM
Silver	ND	0.0050		mg/L	1	6/15/2010 6:23:51 PM
Sodium	230	5.0		mg/L	5	6/17/2010 11:35:32 AM
Zinc	ND	0.050		mg/L	1	6/15/2010 6:23:51 PM
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Arsenic	ND	0.020		mg/L	1	6/10/2010 11:43:32 AM
Barium	0.024	0.020		mg/L	1	6/10/2010 11:43:32 AM
Cadmium	ND	0.0020		mg/L	1	6/10/2010 11:43:32 AM
Chromium	ND	0.0060		mg/L	1	6/10/2010 11:43:32 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1006175	**Collection Date:**	6/1/2010 11:58:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 6010B: TOTAL RECOVERBLE METALS						Analyst: **SNV**
Lead	ND	0.0050		mg/L	1	6/10/2010 11:43:32 AM
Selenium	ND	0.050		mg/L	1	6/10/2010 11:43:32 AM
Silver	ND	0.0050		mg/L	1	6/10/2010 11:43:32 AM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
Acenaphthene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Acenaphthylene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Aniline	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Anthracene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Azobenzene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Benz(a)anthracene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Benzo(a)pyrene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Benzoic acid	ND	20		µg/L	1	6/8/2010 6:00:22 PM
Benzyl alcohol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/8/2010 6:00:22 PM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Butyl benzyl phthalate	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Carbazole	ND	10		µg/L	1	6/8/2010 6:00:22 PM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
4-Chloroaniline	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2-Chloronaphthalene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2-Chlorophenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Chrysene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Di-n-butyl phthalate	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Di-n-octyl phthalate	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Dibenzofuran	ND	10		µg/L	1	6/8/2010 6:00:22 PM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Diethyl phthalate	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Dimethyl phthalate	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2,4-Dichlorophenol	ND	20		µg/L	1	6/8/2010 6:00:22 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1006175	**Collection Date:**	6/1/2010 11:58:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
2,4-Dimethylphenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/8/2010 6:00:22 PM
2,4-Dinitrophenol	ND	20		µg/L	1	6/8/2010 6:00:22 PM
2,4-Dinitrotoluene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Fluoranthene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Fluorene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Hexachlorobenzene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Hexachlorobutadiene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Hexachloroethane	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Isophorone	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2-Methylnaphthalene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2-Methylphenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
3+4-Methylphenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/8/2010 6:00:22 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/8/2010 6:00:22 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Naphthalene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2-Nitroaniline	ND	10		µg/L	1	6/8/2010 6:00:22 PM
3-Nitroaniline	ND	10		µg/L	1	6/8/2010 6:00:22 PM
4-Nitroaniline	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Nitrobenzene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2-Nitrophenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
4-Nitrophenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Pentachlorophenol	ND	20		µg/L	1	6/8/2010 6:00:22 PM
Phenanthrene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Phenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Pyrene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Pyridine	ND	10		µg/L	1	6/8/2010 6:00:22 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/8/2010 6:00:22 PM
Surr: 2,4,6-Tribromophenol	45.5	16.6-150		%REC	1	6/8/2010 6:00:22 PM
Surr: 2-Fluorobiphenyl	36.6	19.6-134		%REC	1	6/8/2010 6:00:22 PM
Surr: 2-Fluorophenol	26.2	9.54-113		%REC	1	6/8/2010 6:00:22 PM
Surr: 4-Terphenyl-d14	31.5	22.7-145		%REC	1	6/8/2010 6:00:22 PM
Surr: Nitrobenzene-d5	37.4	14.6-134		%REC	1	6/8/2010 6:00:22 PM
Surr: Phenol-d5	19.7	10.7-80.3		%REC	1	6/8/2010 6:00:22 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1006175	**Collection Date:**	6/1/2010 11:58:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Benzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Toluene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Ethylbenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Naphthalene	ND	2.0		µg/L	1	6/9/2010 9:12:01 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/9/2010 9:12:01 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/9/2010 9:12:01 AM
Acetone	ND	10		µg/L	1	6/9/2010 9:12:01 AM
Bromobenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Bromoform	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Bromomethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
2-Butanone	ND	10		µg/L	1	6/9/2010 9:12:01 AM
Carbon disulfide	ND	10		µg/L	1	6/9/2010 9:12:01 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Chlorobenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Chloroethane	ND	2.0		µg/L	1	6/9/2010 9:12:01 AM
Chloroform	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Chloromethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/9/2010 9:12:01 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Dibromomethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/9/2010 9:12:01 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-52
Lab Order:	1006175	**Collection Date:**	6/1/2010 11:58:00 AM
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
2-Hexanone	ND	10		µg/L	1	6/9/2010 9:12:01 AM
Isopropylbenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/9/2010 9:12:01 AM
Methylene Chloride	ND	3.0		µg/L	1	6/9/2010 9:12:01 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Styrene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/9/2010 9:12:01 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/9/2010 9:12:01 AM
Vinyl chloride	ND	1.0		µg/L	1	6/9/2010 9:12:01 AM
Xylenes, Total	ND	1.5		µg/L	1	6/9/2010 9:12:01 AM
Surr: 1,2-Dichloroethane-d4	87.4	54.6-141		%REC	1	6/9/2010 9:12:01 AM
Surr: 4-Bromofluorobenzene	105	60.1-133		%REC	1	6/9/2010 9:12:01 AM
Surr: Dibromofluoromethane	95.3	78.5-130		%REC	1	6/9/2010 9:12:01 AM
Surr: Toluene-d8	104	79.5-126		%REC	1	6/9/2010 9:12:01 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **NSB**
Specific Conductance	990	0.010		µmhos/cm	1	6/4/2010 4:52:00 PM
SM4500-H+B: PH						Analyst: **NSB**
pH	8.25	0.1		pH units	1	6/4/2010 4:52:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TRIP BLANK
Lab Order:	1006175	**Collection Date:**	
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-03	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/10/2010 12:58:30 PM
Surr: BFB	92.4	55.2-107		%REC	1	6/10/2010 12:58:30 PM
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Benzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Toluene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Ethylbenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Naphthalene	ND	2.0		µg/L	1	6/9/2010 12:16:24 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/9/2010 12:16:24 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/9/2010 12:16:24 PM
Acetone	ND	10		µg/L	1	6/9/2010 12:16:24 PM
Bromobenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Bromodichloromethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Bromoform	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Bromomethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
2-Butanone	ND	10		µg/L	1	6/9/2010 12:16:24 PM
Carbon disulfide	ND	10		µg/L	1	6/9/2010 12:16:24 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Chlorobenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Chloroethane	ND	2.0		µg/L	1	6/9/2010 12:16:24 PM
Chloroform	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Chloromethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
2-Chlorotoluene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
4-Chlorotoluene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
cis-1,2-DCE	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/9/2010 12:16:24 PM
Dibromochloromethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Dibromomethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *18-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TRIP BLANK
Lab Order:	1006175	**Collection Date:**	
Project:	2nd Qtr 2010 OW Wells	**Date Received:**	6/4/2010
Lab ID:	1006175-03	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
1,3-Dichloropropane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/9/2010 12:16:24 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
2-Hexanone	ND	10		µg/L	1	6/9/2010 12:16:24 PM
Isopropylbenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/9/2010 12:16:24 PM
Methylene Chloride	ND	3.0		µg/L	1	6/9/2010 12:16:24 PM
n-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
n-Propylbenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
sec-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Styrene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
tert-Butylbenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/9/2010 12:16:24 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
trans-1,2-DCE	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/9/2010 12:16:24 PM
Vinyl chloride	ND	1.0		µg/L	1	6/9/2010 12:16:24 PM
Xylenes, Total	ND	1.5		µg/L	1	6/9/2010 12:16:24 PM
Surr: 1,2-Dichloroethane-d4	87.5	54.6-141		%REC	1	6/9/2010 12:16:24 PM
Surr: 4-Bromofluorobenzene	103	60.1-133		%REC	1	6/9/2010 12:16:24 PM
Surr: Dibromofluoromethane	92.5	78.5-130		%REC	1	6/9/2010 12:16:24 PM
Surr: Toluene-d8	101	79.5-126		%REC	1	6/9/2010 12:16:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1006175-01CMSD		*MSD*				Batch ID: **R39153**		Analysis Date:		6/8/2010 3:24:51 PM	
Fluoride	0.9715	mg/L	0.10	0.5	0.5343	87.4	77.5	105	0.544	20	
Bromide	2.524	mg/L	0.10	2.5	0.2166	92.3	78.8	108	0.167	20	
Sample ID: MB		*MBLK*				Batch ID: **R39153**		Analysis Date:		6/8/2010 10:04:20 AM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID: **R39156**		Analysis Date:		6/8/2010 10:00:42 AM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Nitrate (As N)+Nitrite (As N)	ND	mg/L	0.20								
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID: **R39153**		Analysis Date:		6/8/2010 10:21:45 AM	
Fluoride	0.4883	mg/L	0.10	0.5	0	97.7	90	110			
Chloride	4.897	mg/L	0.50	5	0	97.9	90	110			
Bromide	2.507	mg/L	0.10	2.5	0	100	90	110			
Nitrate (As N)+Nitrite (As N)	3.460	mg/L	0.20	3.5	0	98.8	90	110			
Phosphorus, Orthophosphate (As P)	4.870	mg/L	0.50	5	0	97.4	90	110			
Sulfate	10.02	mg/L	0.50	10	0	100	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R39156**		Analysis Date:		6/8/2010 10:18:07 AM	
Fluoride	0.4904	mg/L	0.10	0.5	0	98.1	90	110			
Chloride	4.721	mg/L	0.50	5	0	94.4	90	110			
Bromide	2.399	mg/L	0.10	2.5	0	96.0	90	110			
Nitrate (As N)+Nitrite (As N)	3.318	mg/L	0.20	3.5	0	94.8	90	110			
Phosphorus, Orthophosphate (As P)	4.746	mg/L	0.50	5	0	94.9	90	110			
Sulfate	9.528	mg/L	0.50	10	0	95.3	90	110			
Sample ID: 1006175-01CMS		*MS*				Batch ID: **R39153**		Analysis Date:		6/8/2010 3:07:26 PM	
Fluoride	0.9768	mg/L	0.10	0.5	0.5343	88.5	77.5	105			
Bromide	2.520	mg/L	0.10	2.5	0.2166	92.1	78.8	108			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-22527		*MBLK*				Batch ID: **22527**		Analysis Date:		6/7/2010 9:18:34 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-22527		*LCS*				Batch ID: **22527**		Analysis Date:		6/7/2010 9:52:08 AM	
Diesel Range Organics (DRO)	6.017	mg/L	1.0	5	0	120	74	157			
Sample ID: LCSD-22527		*LCSD*				Batch ID: **22527**		Analysis Date:		6/7/2010 10:26:00 AM	
Diesel Range Organics (DRO)	6.425	mg/L	1.0	5	0	129	74	157	6.57	23	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID: **R39200**		Analysis Date:	6/10/2010 9:35:51 AM		
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R39200**		Analysis Date:	6/10/2010 6:45:23 PM		
Gasoline Range Organics (GRO)	0.4882	mg/L	0.050	0.5	0	97.6	77.8	124			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 1006175-01a msd		*MSD*				Batch ID:	**R39141**	Analysis Date:		6/9/2010 8:44:31 AM	
Benzene	19.12	µg/L	1.0	20	0	95.6	75.7	118	8.72	15	
Toluene	21.52	µg/L	1.0	20	0	108	80.1	114	1.55	15	
Chlorobenzene	21.06	µg/L	1.0	20	0	105	81.5	112	1.32	15	
1,1-Dichloroethene	22.13	µg/L	1.0	20	0	111	77.4	132	5.43	17.8	
Trichloroethene (TCE)	17.72	µg/L	1.0	20	0	88.6	61.1	121	2.71	19.8	
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R39141**	Analysis Date:		6/8/2010 8:42:02 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*				Batch ID: **R39141**		Analysis Date:	6/8/2010 8:42:02 AM		
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: b8		*MBLK*				Batch ID: **R39141**		Analysis Date:	6/8/2010 10:22:14 PM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b8		*MBLK*				Batch ID: **R39141**		Analysis Date:	6/8/2010 10:22:14 PM		
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b8		*MBLK*				Batch ID: **R39141**		Analysis Date:	6/8/2010 10:22:14 PM		
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 5ml rb		*MBLK*				Batch ID: **R39181**		Analysis Date:	6/9/2010 10:25:58 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*				Batch ID: **R39181**		Analysis Date:	6/9/2010 10:25:58 AM		
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: b9		*MBLK*				Batch ID: **R39181**		Analysis Date:	6/9/2010 10:55:36 PM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b9		*MBLK*					Batch ID: **R39181**		Analysis Date:	6/9/2010 10:55:36 PM	
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b9		*MBLK*				Batch ID:	**R39181**	Analysis Date:	6/9/2010 10:55:36 PM		
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R39141**	Analysis Date:	6/8/2010 9:53:19 AM		
Benzene	18.99	µg/L	1.0	20	0	94.9	82.4	116			
Toluene	21.58	µg/L	1.0	20	0	108	89.5	123			
Chlorobenzene	22.03	µg/L	1.0	20	0	110	87.8	120			
1,1-Dichloroethene	20.97	µg/L	1.0	20	0	105	90.3	138			
Trichloroethene (TCE)	17.95	µg/L	1.0	20	0	89.7	64	129			
Sample ID: 100ng lcs_b		*LCS*				Batch ID:	**R39141**	Analysis Date:	6/8/2010 9:54:25 PM		
Benzene	19.15	µg/L	1.0	20	0	95.7	82.4	116			
Toluene	21.55	µg/L	1.0	20	0	108	89.5	123			
Chlorobenzene	21.18	µg/L	1.0	20	0	106	87.8	120			
1,1-Dichloroethene	21.95	µg/L	1.0	20	0	110	90.3	138			
Trichloroethene (TCE)	17.25	µg/L	1.0	20	0	86.3	64	129			
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R39181**	Analysis Date:	6/9/2010 11:21:09 AM		
Benzene	19.11	µg/L	1.0	20	0	95.5	82.4	116			
Toluene	22.00	µg/L	1.0	20	0	110	89.5	123			
Chlorobenzene	21.41	µg/L	1.0	20	0	107	87.8	120			
1,1-Dichloroethene	22.01	µg/L	1.0	20	0	110	90.3	138			
Trichloroethene (TCE)	17.50	µg/L	1.0	20	0	87.5	64	129			
Sample ID: 100ng lcs_b		*LCS*				Batch ID:	**R39181**	Analysis Date:	6/9/2010 11:51:02 PM		
Benzene	18.82	µg/L	1.0	20	0	94.1	82.4	116			
Toluene	21.05	µg/L	1.0	20	0	105	89.5	123			
Chlorobenzene	21.03	µg/L	1.0	20	0	105	87.8	120			
1,1-Dichloroethene	20.79	µg/L	1.0	20	0	104	90.3	138			
Trichloroethene (TCE)	16.87	µg/L	1.0	20	0	84.3	64	129			
Sample ID: 1006175-01a ms		*MS*				Batch ID:	**R39141**	Analysis Date:	6/9/2010 8:17:00 AM		
Benzene	20.86	µg/L	1.0	20	0	104	75.7	118			
Toluene	21.19	µg/L	1.0	20	0	106	80.1	114			
Chlorobenzene	20.79	µg/L	1.0	20	0	104	81.5	112			
1,1-Dichloroethene	23.36	µg/L	1.0	20	0	117	77.4	132			
Trichloroethene (TCE)	18.21	µg/L	1.0	20	0	91.0	61.1	121			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-22555		*MBLK*				Batch ID: **22555**		Analysis Date:	6/8/2010 3:58:33 PM		
Acenaphthene	ND	µg/L	10								
Acenaphthylene	ND	µg/L	10								
Aniline	ND	µg/L	10								
Anthracene	ND	µg/L	10								
Azobenzene	ND	µg/L	10								
Benz(a)anthracene	ND	µg/L	10								
Benzo(a)pyrene	ND	µg/L	10								
Benzo(b)fluoranthene	ND	µg/L	10								
Benzo(g,h,i)perylene	ND	µg/L	10								
Benzo(k)fluoranthene	ND	µg/L	10								
Benzoic acid	ND	µg/L	20								
Benzyl alcohol	ND	µg/L	10								
Bis(2-chloroethoxy)methane	ND	µg/L	10								
Bis(2-chloroethyl)ether	ND	µg/L	10								
Bis(2-chloroisopropyl)ether	ND	µg/L	10								
Bis(2-ethylhexyl)phthalate	ND	µg/L	10								
4-Bromophenyl phenyl ether	ND	µg/L	10								
Butyl benzyl phthalate	ND	µg/L	10								
Carbazole	ND	µg/L	10								
4-Chloro-3-methylphenol	ND	µg/L	10								
4-Chloroaniline	ND	µg/L	10								
2-Chloronaphthalene	ND	µg/L	10								
2-Chlorophenol	ND	µg/L	10								
4-Chlorophenyl phenyl ether	ND	µg/L	10								
Chrysene	ND	µg/L	10								
Di-n-butyl phthalate	ND	µg/L	10								
Di-n-octyl phthalate	ND	µg/L	10								
Dibenz(a,h)anthracene	ND	µg/L	10								
Dibenzofuran	ND	µg/L	10								
1,2-Dichlorobenzene	ND	µg/L	10								
1,3-Dichlorobenzene	ND	µg/L	10								
1,4-Dichlorobenzene	ND	µg/L	10								
3,3'-Dichlorobenzidine	ND	µg/L	10								
Diethyl phthalate	ND	µg/L	10								
Dimethyl phthalate	ND	µg/L	10								
2,4-Dichlorophenol	ND	µg/L	20								
2,4-Dimethylphenol	ND	µg/L	10								
4,6-Dinitro-2-methylphenol	ND	µg/L	20								
2,4-Dinitrophenol	ND	µg/L	20								
2,4-Dinitrotoluene	ND	µg/L	10								
2,6-Dinitrotoluene	ND	µg/L	10								
Fluoranthene	ND	µg/L	10								
Fluorene	ND	µg/L	10								
Hexachlorobenzene	ND	µg/L	10								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-22555		*MBLK*				Batch ID:	**22555**	Analysis Date:		6/8/2010 3:58:33 PM	
Hexachlorobutadiene	ND	µg/L	10								
Hexachlorocyclopentadiene	ND	µg/L	10								
Hexachloroethane	ND	µg/L	10								
Indeno(1,2,3-cd)pyrene	ND	µg/L	10								
Isophorone	ND	µg/L	10								
2-Methylnaphthalene	ND	µg/L	10								
2-Methylphenol	ND	µg/L	10								
3+4-Methylphenol	ND	µg/L	10								
N-Nitrosodi-n-propylamine	ND	µg/L	10								
N-Nitrosodimethylamine	ND	µg/L	10								
N-Nitrosodiphenylamine	ND	µg/L	10								
Naphthalene	ND	µg/L	10								
2-Nitroaniline	ND	µg/L	10								
3-Nitroaniline	ND	µg/L	10								
4-Nitroaniline	ND	µg/L	10								
Nitrobenzene	ND	µg/L	10								
2-Nitrophenol	ND	µg/L	10								
4-Nitrophenol	ND	µg/L	10								
Pentachlorophenol	ND	µg/L	20								
Phenanthrene	ND	µg/L	10								
Phenol	ND	µg/L	10								
Pyrene	ND	µg/L	10								
Pyridine	ND	µg/L	10								
1,2,4-Trichlorobenzene	ND	µg/L	10								
2,4,5-Trichlorophenol	ND	µg/L	10								
2,4,6-Trichlorophenol	ND	µg/L	10								
Sample ID: lcs-22555		*LCS*				Batch ID:	**22555**	Analysis Date:		6/8/2010 4:29:07 PM	
Acenaphthene	69.44	µg/L	10	100	0	69.4	29.3	113			
4-Chloro-3-methylphenol	121.3	µg/L	10	200	0	60.7	23.3	123			
2-Chlorophenol	118.3	µg/L	10	200	0	59.2	23.9	112			
1,4-Dichlorobenzene	55.60	µg/L	10	100	0	55.6	16.5	106			
2,4-Dinitrotoluene	63.50	µg/L	10	100	0	63.5	27.7	126			
N-Nitrosodi-n-propylamine	58.54	µg/L	10	100	0	58.5	25.9	113			
4-Nitrophenol	58.68	µg/L	10	200	0	29.3	13.2	76.7			
Pentachlorophenol	121.7	µg/L	20	200	0	60.9	22.4	121			
Phenol	63.60	µg/L	10	200	0	31.8	15.3	68.3			
Pyrene	68.62	µg/L	10	100	3.08	65.5	23.5	119			
1,2,4-Trichlorobenzene	58.30	µg/L	10	100	0	58.3	23	107			
Sample ID: lcsd-22555		*LCSD*				Batch ID:	**22555**	Analysis Date:		6/8/2010 4:59:34 PM	
Acenaphthene	75.36	µg/L	10	100	0	75.4	29.3	113	8.18	30.5	
4-Chloro-3-methylphenol	146.9	µg/L	10	200	0	73.5	23.3	123	19.1	28.6	
2-Chlorophenol	124.4	µg/L	10	200	0	62.2	23.9	112	4.98	107	
1,4-Dichlorobenzene	55.28	µg/L	10	100	0	55.3	16.5	106	0.577	62.1	
2,4-Dinitrotoluene	73.48	µg/L	10	100	0	73.5	27.7	126	14.6	14.7	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: lcsd-22555		*LCSD*				Batch ID:	**22555**	Analysis Date:		6/8/2010 4:59:34 PM	
N-Nitrosodi-n-propylamine	63.76	µg/L	10	100	0	63.8	25.9	113	8.54	30.3	
4-Nitrophenol	76.96	µg/L	10	200	0	38.5	13.2	76.7	27.0	36.3	
Pentachlorophenol	145.0	µg/L	20	200	0	72.5	22.4	121	17.4	49	
Phenol	65.02	µg/L	10	200	0	32.5	15.3	68.3	2.21	52.4	
Pyrene	64.30	µg/L	10	100	3.08	61.2	23.5	119	6.50	16.3	
1,2,4-Trichlorobenzene	63.14	µg/L	10	100	0	63.1	23	107	7.97	36.4	
Method: EPA Method 7470: Mercury											
Sample ID: MB-22550		*MBLK*				Batch ID:	**22550**	Analysis Date:		6/8/2010 3:57:34 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-22550		*LCS*				Batch ID:	**22550**	Analysis Date:		6/8/2010 4:03:01 PM	
Mercury	0.004975	mg/L	0.00020	0.005	5E-05	98.4	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		*MBLK*				Batch ID:	**R39277**	Analysis Date:	6/15/2010 3:40:09 PM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.020								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Manganese	ND	mg/L	0.0020								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Zinc	ND	mg/L	0.050								
Sample ID: MB		*MBLK*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 9:58:18 AM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.020								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Manganese	ND	mg/L	0.0020								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Zinc	ND	mg/L	0.050								
Sample ID: LCS		*LCS*				Batch ID:	**R39277**	Analysis Date:	6/15/2010 3:43:18 PM		
Arsenic	0.5066	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4994	mg/L	0.020	0.5	0	99.9	80	120			
Cadmium	0.5038	mg/L	0.0020	0.5	0	101	80	120			
Calcium	50.52	mg/L	1.0	50.5	0	100	80	120			
Chromium	0.5029	mg/L	0.0060	0.5	0	101	80	120			
Copper	0.5393	mg/L	0.0060	0.5	0.0009	108	80	120			
Iron	0.5210	mg/L	0.020	0.5	0	104	80	120			
Lead	0.5017	mg/L	0.0050	0.5	0	100	80	120			
Magnesium	51.05	mg/L	1.0	50.5	0	101	80	120			
Manganese	0.4955	mg/L	0.0020	0.5	0	99.1	80	120			
Potassium	54.59	mg/L	1.0	55	0	99.3	80	120			
Selenium	0.5250	mg/L	0.050	0.5	0	105	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr 2010 OW Wells **Work Order:** 1006175

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: LCS		*LCS*				Batch ID:	**R39277**	Analysis Date:	6/15/2010 3:43:18 PM		
Silver	0.5128	mg/L	0.0050	0.5	0	103	80	120			
Sodium	54.15	mg/L	1.0	50.5	0	107	80	120			
Zinc	0.4962	mg/L	0.050	0.5	0	99.2	80	120			
Sample ID: LCS		*LCS*				Batch ID:	**R39313**	Analysis Date:	6/17/2010 10:01:05 AM		
Arsenic	0.5043	mg/L	0.020	0.5	0	101	80	120			
Barium	0.4713	mg/L	0.020	0.5	0	94.3	80	120			
Cadmium	0.4886	mg/L	0.0020	0.5	0	97.7	80	120			
Calcium	49.15	mg/L	1.0	50.5	0	97.3	80	120			
Chromium	0.4798	mg/L	0.0060	0.5	0	96.0	80	120			
Copper	0.4992	mg/L	0.0060	0.5	0	99.8	80	120			
Iron	0.4878	mg/L	0.020	0.5	0	97.6	80	120			
Lead	0.4875	mg/L	0.0050	0.5	0	97.5	80	120			
Magnesium	49.46	mg/L	1.0	50.5	0	97.9	80	120			
Manganese	0.4685	mg/L	0.0020	0.5	0.0001	93.7	80	120			
Potassium	51.94	mg/L	1.0	55	0	94.4	80	120			
Selenium	0.4898	mg/L	0.050	0.5	0	98.0	80	120			
Silver	0.4889	mg/L	0.0050	0.5	0	97.8	80	120			
Sodium	51.81	mg/L	1.0	50.5	0	103	80	120			
Zinc	0.4822	mg/L	0.050	0.5	0	96.4	80	120			
Method: EPA 6010B: Total Recoverble Metals											
Sample ID: MB-22565		*MBLK*				Batch ID:	**22565**	Analysis Date:	6/10/2010 10:43:45 AM		
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-22565		*LCS*				Batch ID:	**22565**	Analysis Date:	6/10/2010 10:46:43 AM		
Arsenic	0.5193	mg/L	0.020	0.5	0.0082	102	80	120			
Barium	0.4736	mg/L	0.020	0.5	0	94.7	80	120			
Cadmium	0.4897	mg/L	0.0020	0.5	0	97.9	80	120			
Chromium	0.4921	mg/L	0.0060	0.5	0	98.4	80	120			
Lead	0.4895	mg/L	0.0050	0.5	0	97.9	80	120			
Selenium	0.5130	mg/L	0.050	0.5	0	103	80	120			
Silver	0.4870	mg/L	0.0050	0.5	0.0007	97.3	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/4/2010**

Work Order Number **1006175** Received by: **TLS**

Checklist completed by: Signature 6/4/10 Date Sample ID labels checked by: Initials

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☑	N/A ☐	
Container/Temp Blank temperature?	**6.3°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 10

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Gallup Refinery
Mailing Address: Rt 3 Box 7 Gallup, NM 87301
Phone #: 505 722 3833
email or Fax#: 505 722 0210
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____
Project Name: 2nd QTR 2010 OW wells
Project #:
Project Manager: C Johnson
Sampler: CJohnson
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.2 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1006117	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals Total & Diss	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA) + phenols	Gen Chem				Air Bubbles (Y or N)
6-1-10	1020	H2O	OW-50	3-40ml	HCl	1			X													
				3-40ml	HCl	1										X						
				1 L	None	1											X					
				2-500	HNO3	1							X				X					
				2-125	HNO3	1							X									
				1-250	None	1												X				
				1-125	H2SO4	1												X				
6-1-10	1158	H2O	OW-52	3-40ml	HCl	2			X													
				3-40ml	HCl	2										X						
				1 L	None	2											X					
				2-500	HNO3	2							X									
				2-125	HNO3	2							X									

Date	Time	Relinquished by:	Received by:	Date	Time
6/7/10	1200			6/4/10	905
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: gen chem = cat/anions, pH, EC

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining Gallup Refinery

Mailing Address: Rt 3 Box 7 Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: 2nd QTR 2010 OW wells

Project #:

Project Manager: C Johnson

Sampler: C Johnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1000175	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Gen Chem				Air Bubbles (Y or N)
6/1/10	1158	H2O	OW-52	1-250	None	2												X				
			"	1-125	H2SO4	2												X				
6/1/10			Trip Blank	—	—	3																

Date: 06-03-10 Time: 1200 Relinquished by:

Received by: Date: 6/4/10 Time: 905

Date: Time: Relinquished by:

Received by: Date: Time:

Remarks: gen chem: Cat/anion, pH, ec

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, June 17, 2010

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: 2nd QTR Influents

Order No.: 1006251

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 6/8/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Infl to AL1
Lab Order:	1006251	**Collection Date:**	6/7/2010 1:40:00 PM
Project:	2nd QTR Influents	**Date Received:**	6/8/2010
Lab ID:	1006251-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/10/2010 4:52:52 PM
2-Chlorophenol	ND	50		µg/L	1	6/10/2010 4:52:52 PM
2,4-Dichlorophenol	ND	100		µg/L	1	6/10/2010 4:52:52 PM
2,4-Dimethylphenol	200	50		µg/L	1	6/10/2010 4:52:52 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/10/2010 4:52:52 PM
2,4-Dinitrophenol	ND	100		µg/L	1	6/10/2010 4:52:52 PM
2-Methylphenol	1000	50		µg/L	1	6/10/2010 4:52:52 PM
3+4-Methylphenol	1600	500		µg/L	10	6/10/2010 4:22:55 PM
2-Nitrophenol	ND	50		µg/L	1	6/10/2010 4:52:52 PM
4-Nitrophenol	ND	50		µg/L	1	6/10/2010 4:52:52 PM
Pentachlorophenol	ND	100		µg/L	1	6/10/2010 4:52:52 PM
Phenol	2600	500		µg/L	10	6/10/2010 4:22:55 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/10/2010 4:52:52 PM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/10/2010 4:52:52 PM
Surr: 2,4,6-Tribromophenol	55.1	16.6-150		%REC	1	6/10/2010 4:52:52 PM
Surr: 2-Fluorobiphenyl	56.4	19.6-134		%REC	1	6/10/2010 4:52:52 PM
Surr: 2-Fluorophenol	39.4	9.54-113		%REC	1	6/10/2010 4:52:52 PM
Surr: 4-Terphenyl-d14	45.7	22.7-145		%REC	1	6/10/2010 4:52:52 PM
Surr: Nitrobenzene-d5	55.8	14.6-134		%REC	1	6/10/2010 4:52:52 PM
Surr: Phenol-d5	32.3	10.7-80.3		%REC	1	6/10/2010 4:52:52 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Infl to AL2
Lab Order:	1006251	**Collection Date:**	6/7/2010 1:45:00 PM
Project:	2nd QTR Influents	**Date Received:**	6/8/2010
Lab ID:	1006251-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
2-Chlorophenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
2,4-Dichlorophenol	ND	100		µg/L	1	6/10/2010 5:52:47 PM
2,4-Dimethylphenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/10/2010 5:52:47 PM
2,4-Dinitrophenol	ND	100		µg/L	1	6/10/2010 5:52:47 PM
2-Methylphenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
3+4-Methylphenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
2-Nitrophenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
4-Nitrophenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
Pentachlorophenol	ND	100		µg/L	1	6/10/2010 5:52:47 PM
Phenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/10/2010 5:52:47 PM
Surr: 2,4,6-Tribromophenol	73.4	16.6-150		%REC	1	6/10/2010 5:52:47 PM
Surr: 2-Fluorobiphenyl	63.1	19.6-134		%REC	1	6/10/2010 5:52:47 PM
Surr: 2-Fluorophenol	53.3	9.54-113		%REC	1	6/10/2010 5:52:47 PM
Surr: 4-Terphenyl-d14	57.4	22.7-145		%REC	1	6/10/2010 5:52:47 PM
Surr: Nitrobenzene-d5	69.7	14.6-134		%REC	1	6/10/2010 5:52:47 PM
Surr: Phenol-d5	38.1	10.7-80.3		%REC	1	6/10/2010 5:52:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *17-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Infl to EP1
Lab Order:	1006251	**Collection Date:**	6/7/2010 1:57:00 PM
Project:	2nd QTR Influents	**Date Received:**	6/8/2010
Lab ID:	1006251-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **LBJ**
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
2-Chlorophenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
2,4-Dichlorophenol	ND	100		µg/L	1	6/10/2010 6:52:43 PM
2,4-Dimethylphenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/10/2010 6:52:43 PM
2,4-Dinitrophenol	ND	100		µg/L	1	6/10/2010 6:52:43 PM
2-Methylphenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
3+4-Methylphenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
2-Nitrophenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
4-Nitrophenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
Pentachlorophenol	ND	100		µg/L	1	6/10/2010 6:52:43 PM
Phenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/10/2010 6:52:43 PM
Surr: 2,4,6-Tribromophenol	78.8	16.6-150		%REC	1	6/10/2010 6:52:43 PM
Surr: 2-Fluorobiphenyl	71.1	19.6-134		%REC	1	6/10/2010 6:52:43 PM
Surr: 2-Fluorophenol	54.5	9.54-113		%REC	1	6/10/2010 6:52:43 PM
Surr: 4-Terphenyl-d14	63.2	22.7-145		%REC	1	6/10/2010 6:52:43 PM
Surr: Nitrobenzene-d5	65.3	14.6-134		%REC	1	6/10/2010 6:52:43 PM
Surr: Phenol-d5	41.7	10.7-80.3		%REC	1	6/10/2010 6:52:43 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

ESC
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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 15, 2010

ESC Sample # : L463198-01

Site ID :

Project # : 1006251

Date Received : June 09, 2010
Description :

Sample ID : INFL TO AL1

Collected By :
Collection Date : 06/07/10 13:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
BOD	400	5.0	mg/l	SM5210B	06/14/10	1
COD	200	10.	mg/l	410.4	06/14/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/15/10 10:51 Printed: 06/15/10 10:52

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 15, 2010

Date Received : June 09, 2010
Description :

ESC Sample # : L463198-02

Site ID :

Sample ID : INFL TO AL2

Project # : 1006251

Collected By :
Collection Date : 06/07/10 13:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
BOD	310	5.0	mg/l	SM5210B	06/14/10	1
COD	1200	50.	mg/l	410.4	06/14/10	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/15/10 10:51 Printed: 06/15/10 10:52

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Est. 1970

REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 15, 2010

Date Received : June 09, 2010
Description :

ESC Sample # : L463198-03

Sample ID : INFL TO EP1

Site ID :

Project # : 1006251

Collected By :
Collection Date : 06/07/10 13:57

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
BOD	280	5.0	mg/l	SM5210B	06/14/10	1
COD	1200	50.	mg/l	410.4	06/14/10	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/15/10 10:51 Printed: 06/15/10 10:52

ESC
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Est. 1970

Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L463198

June 15, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
COD	<10	mg/l			WG482996	06/14/10 09:25
BOD	-0.0200	mg/l			WG482628	06/14/10 11:16

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
COD	mg/l	250	250	1.61	5	L463203-04	WG482996
COD	mg/l	930.	920.	0.973	5	L463184-04	WG482996
BOD	mg/l	0	0	0	5	L463164-02	WG482628
BOD	mg/l	0	0	0	5	L463179-04	WG482628
BOD	mg/l	0	0	0	5	L463248-02	WG482628
BOD	mg/l	0	0	0	5	L463327-02	WG482628
BOD	mg/l	2500	2400	4.08	5	L462274-01	WG482628

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
COD	mg/l	2630	2380	90.5	90-110	WG482996
BOD	mg/l	198	170.	85.9	84.6-115.4	WG482628
BOD	mg/l	198	167.	84.3	84.6-115.4	WG482628
BOD	mg/l	198	148.	74.7*	84.6-115.4	WG482628
BOD	mg/l	198	165.	83.3*	84.6-115.4	WG482628
BOD	mg/l	198	181.	91.4	84.6-115.4	WG482628
BOD	mg/l	198	164.	82.8*	84.6-115.4	WG482628
BOD	mg/l	198	193.	97.5	84.6-115.4	WG482628
BOD	mg/l	198	186.	93.9	84.6-115.4	WG482628

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
COD	mg/l	2380	2380	91.0	90-110	1.00	5	WG482996

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
COD	mg/l	1050	410	400	105	90-110	L463209-01	WG482996

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
COD	mg/l	1031	831	106	90-110	0.0360	5	L463209-01	WG482996

Batch number /Run number / Sample number cross reference

WG482996: R1251230: L463198-01 02 03
WG482628: R1251809: L463198-01 02 03

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd QTR Influents **Work Order:** 1006251

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8270C: Semivolatiles											
Sample ID: mb-22575		*MBLK*				Batch ID:	**22575**	Analysis Date:		6/10/2010 2:23:27 PM	
4-Chloro-3-methylphenol	ND	µg/L	10								
2-Chlorophenol	ND	µg/L	10								
2,4-Dichlorophenol	ND	µg/L	20								
2,4-Dimethylphenol	ND	µg/L	10								
4,6-Dinitro-2-methylphenol	ND	µg/L	20								
2,4-Dinitrophenol	ND	µg/L	20								
2-Methylphenol	ND	µg/L	10								
3+4-Methylphenol	ND	µg/L	10								
2-Nitrophenol	ND	µg/L	10								
4-Nitrophenol	ND	µg/L	10								
Pentachlorophenol	ND	µg/L	20								
Phenol	ND	µg/L	10								
2,4,5-Trichlorophenol	ND	µg/L	10								
2,4,6-Trichlorophenol	ND	µg/L	10								
Sample ID: lcs-22575		*LCS*				Batch ID:	**22575**	Analysis Date:		6/10/2010 2:53:13 PM	
4-Chloro-3-methylphenol	118.6	µg/L	10	200	0	59.3	23.3	123			
2-Chlorophenol	113.1	µg/L	10	200	0	56.5	23.9	112			
4-Nitrophenol	75.78	µg/L	10	200	0	37.9	13.2	76.7			
Pentachlorophenol	136.3	µg/L	20	200	3.92	66.2	22.4	121			
Phenol	63.42	µg/L	10	200	0	31.7	15.3	68.3			
Sample ID: lcsd-22575		*LCSD*				Batch ID:	**22575**	Analysis Date:		6/10/2010 3:23:06 PM	
4-Chloro-3-methylphenol	132.7	µg/L	10	200	0	66.4	23.3	123	11.2	28.6	
2-Chlorophenol	118.2	µg/L	10	200	0	59.1	23.9	112	4.39	107	
4-Nitrophenol	76.94	µg/L	10	200	0	38.5	13.2	76.7	1.52	36.3	
Pentachlorophenol	128.0	µg/L	20	200	3.92	62.0	22.4	121	6.25	49	
Phenol	68.98	µg/L	10	200	0	34.5	15.3	68.3	8.40	52.4	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/8/2010**

Work Order Number **1006251** Received by: ARS

Checklist completed by: Signature 6/8/10 Date Sample ID labels checked by: Initials

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	**0.3°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: 3

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Gallup Refinery

Mailing Address: PO Box 7 Gallup NM

Phone #: 505 722 3833

email or Fax#: 505 722 0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☐ Rush _____

Project Name: 2nd QTR Influents

Project #:

Project Manager: CJohnson

Sampler: CJohnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 0.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1006251
6/7/10	1340	H_2O	Infl to AL1	1-500	None	1
				1-250	H_2SO_4	1
				1-L	None	1
	1345		Infl to AL2	1-500	None	2
				1-250	H_2SO_4	2
				1-L	None	2
	1350		Infl to EP1	1-500	None	3
				1-250	H_2SO_4	3
				1-L	None	3
			~~Trip Blank~~			

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA) +phenols					Air Bubbles (Y or N)
											X BOD				
												X CL			
										X					
											X				
												X			
										X					
											X				
												X			
										X					

Date: 6/7/10 Time: 1425 Relinquished by:

Received by: 9:15 Date: 6/8/10 Time

Date: Time: Relinquished by:

Received by: Date: Time

Remarks:

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, June 11, 2010

Cheryl Johnson
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: 2nd Qtr OW Wells

Order No.: 1006252

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 6/8/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-30
Lab Order:	1006252	**Collection Date:**	6/4/2010 2:30:00 PM
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Toluene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Ethylbenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Methyl tert-butyl ether (MTBE)	1000	20		µg/L	20	6/10/2010 8:58:07 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Naphthalene	ND	2.0		µg/L	1	6/10/2010 9:25:47 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/10/2010 9:25:47 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/10/2010 9:25:47 PM
Acetone	ND	10		µg/L	1	6/10/2010 9:25:47 PM
Bromobenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Bromodichloromethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Bromoform	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Bromomethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
2-Butanone	ND	10		µg/L	1	6/10/2010 9:25:47 PM
Carbon disulfide	ND	10		µg/L	1	6/10/2010 9:25:47 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Chlorobenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Chloroethane	ND	2.0		µg/L	1	6/10/2010 9:25:47 PM
Chloroform	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Chloromethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
2-Chlorotoluene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
4-Chlorotoluene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
cis-1,2-DCE	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/10/2010 9:25:47 PM
Dibromochloromethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Dibromomethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/10/2010 9:25:47 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-30
Lab Order:	1006252	**Collection Date:**	6/4/2010 2:30:00 PM
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
2-Hexanone	ND	10		µg/L	1	6/10/2010 9:25:47 PM
Isopropylbenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/10/2010 9:25:47 PM
Methylene Chloride	ND	3.0		µg/L	1	6/10/2010 9:25:47 PM
n-Butylbenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
n-Propylbenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
sec-Butylbenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Styrene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
tert-Butylbenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/10/2010 9:25:47 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
trans-1,2-DCE	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/10/2010 9:25:47 PM
Vinyl chloride	ND	1.0		µg/L	1	6/10/2010 9:25:47 PM
Xylenes, Total	ND	1.5		µg/L	1	6/10/2010 9:25:47 PM
Surr: 1,2-Dichloroethane-d4	89.9	54.6-141		%REC	1	6/10/2010 9:25:47 PM
Surr: 4-Bromofluorobenzene	102	60.1-133		%REC	1	6/10/2010 9:25:47 PM
Surr: Dibromofluoromethane	89.6	78.5-130		%REC	1	6/10/2010 9:25:47 PM
Surr: Toluene-d8	104	79.5-126		%REC	1	6/10/2010 9:25:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-14
Lab Order:	1006252	**Collection Date:**	6/7/2010 8:38:00 AM
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	330	10		µg/L	10	6/10/2010 10:20:55 PM
Toluene	1.8	1.0		µg/L	1	6/10/2010 10:48:37 PM
Ethylbenzene	8.5	1.0		µg/L	1	6/10/2010 10:48:37 PM
Methyl tert-butyl ether (MTBE)	1400	10		µg/L	10	6/10/2010 10:20:55 PM
1,2,4-Trimethylbenzene	1.1	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,2-Dichloroethane (EDC)	1.5	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Naphthalene	ND	2.0		µg/L	1	6/10/2010 10:48:37 PM
1-Methylnaphthalene	20	4.0		µg/L	1	6/10/2010 10:48:37 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/10/2010 10:48:37 PM
Acetone	ND	10		µg/L	1	6/10/2010 10:48:37 PM
Bromobenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Bromodichloromethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Bromoform	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Bromomethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
2-Butanone	ND	10		µg/L	1	6/10/2010 10:48:37 PM
Carbon disulfide	ND	10		µg/L	1	6/10/2010 10:48:37 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Chlorobenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Chloroethane	ND	2.0		µg/L	1	6/10/2010 10:48:37 PM
Chloroform	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Chloromethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
2-Chlorotoluene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
4-Chlorotoluene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
cis-1,2-DCE	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/10/2010 10:48:37 PM
Dibromochloromethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Dibromomethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/10/2010 10:48:37 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-14
Lab Order:	1006252	**Collection Date:**	6/7/2010 8:38:00 AM
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	6/10/2010 10:48:37 PM
Isopropylbenzene	2.6	1.0		µg/L	1	6/10/2010 10:48:37 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/10/2010 10:48:37 PM
Methylene Chloride	ND	3.0		µg/L	1	6/10/2010 10:48:37 PM
n-Butylbenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
n-Propylbenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
sec-Butylbenzene	2.4	1.0		µg/L	1	6/10/2010 10:48:37 PM
Styrene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
tert-Butylbenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/10/2010 10:48:37 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
trans-1,2-DCE	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/10/2010 10:48:37 PM
Vinyl chloride	ND	1.0		µg/L	1	6/10/2010 10:48:37 PM
Xylenes, Total	ND	1.5		µg/L	1	6/10/2010 10:48:37 PM
Surr: 1,2-Dichloroethane-d4	93.0	54.6-141		%REC	1	6/10/2010 10:48:37 PM
Surr: 4-Bromofluorobenzene	111	60.1-133		%REC	1	6/10/2010 10:48:37 PM
Surr: Dibromofluoromethane	97.3	78.5-130		%REC	1	6/10/2010 10:48:37 PM
Surr: Toluene-d8	101	79.5-126		%REC	1	6/10/2010 10:48:37 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-29
Lab Order:	1006252	**Collection Date:**	6/7/2010 9:35:00 AM
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Toluene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Ethylbenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Methyl tert-butyl ether (MTBE)	150	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Naphthalene	ND	2.0		µg/L	1	6/10/2010 11:43:45 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/10/2010 11:43:45 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/10/2010 11:43:45 PM
Acetone	ND	10		µg/L	1	6/10/2010 11:43:45 PM
Bromobenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Bromodichloromethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Bromoform	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Bromomethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
2-Butanone	ND	10		µg/L	1	6/10/2010 11:43:45 PM
Carbon disulfide	ND	10		µg/L	1	6/10/2010 11:43:45 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Chlorobenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Chloroethane	ND	2.0		µg/L	1	6/10/2010 11:43:45 PM
Chloroform	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Chloromethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
2-Chlorotoluene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
4-Chlorotoluene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
cis-1,2-DCE	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/10/2010 11:43:45 PM
Dibromochloromethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Dibromomethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/10/2010 11:43:45 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-29
Lab Order:	1006252	**Collection Date:**	6/7/2010 9:35:00 AM
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	6/10/2010 11:43:45 PM
Isopropylbenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/10/2010 11:43:45 PM
Methylene Chloride	ND	3.0		µg/L	1	6/10/2010 11:43:45 PM
n-Butylbenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
n-Propylbenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
sec-Butylbenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Styrene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
tert-Butylbenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/10/2010 11:43:45 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
trans-1,2-DCE	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/10/2010 11:43:45 PM
Vinyl chloride	ND	1.0		µg/L	1	6/10/2010 11:43:45 PM
Xylenes, Total	ND	1.5		µg/L	1	6/10/2010 11:43:45 PM
Surr: 1,2-Dichloroethane-d4	87.1	54.6-141		%REC	1	6/10/2010 11:43:45 PM
Surr: 4-Bromofluorobenzene	103	60.1-133		%REC	1	6/10/2010 11:43:45 PM
Surr: Dibromofluoromethane	88.8	78.5-130		%REC	1	6/10/2010 11:43:45 PM
Surr: Toluene-d8	102	79.5-126		%REC	1	6/10/2010 11:43:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-13
Lab Order:	1006252	**Collection Date:**	6/7/2010 11:18:00 AM
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Benzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Toluene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Ethylbenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Methyl tert-butyl ether (MTBE)	2.7	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Naphthalene	ND	2.0		µg/L	1	6/11/2010 12:11:22 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/11/2010 12:11:22 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/11/2010 12:11:22 AM
Acetone	ND	10		µg/L	1	6/11/2010 12:11:22 AM
Bromobenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Bromoform	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Bromomethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
2-Butanone	ND	10		µg/L	1	6/11/2010 12:11:22 AM
Carbon disulfide	ND	10		µg/L	1	6/11/2010 12:11:22 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Chlorobenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Chloroethane	ND	2.0		µg/L	1	6/11/2010 12:11:22 AM
Chloroform	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Chloromethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/11/2010 12:11:22 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Dibromomethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/11/2010 12:11:22 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	OW-13
Lab Order:	1006252	**Collection Date:**	6/7/2010 11:18:00 AM
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	6/11/2010 12:11:22 AM
Isopropylbenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/11/2010 12:11:22 AM
Methylene Chloride	ND	3.0		µg/L	1	6/11/2010 12:11:22 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Styrene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/11/2010 12:11:22 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/11/2010 12:11:22 AM
Vinyl chloride	ND	1.0		µg/L	1	6/11/2010 12:11:22 AM
Xylenes, Total	ND	1.5		µg/L	1	6/11/2010 12:11:22 AM
Surr: 1,2-Dichloroethane-d4	92.2	54.6-141		%REC	1	6/11/2010 12:11:22 AM
Surr: 4-Bromofluorobenzene	104	60.1-133		%REC	1	6/11/2010 12:11:22 AM
Surr: Dibromofluoromethane	97.6	78.5-130		%REC	1	6/11/2010 12:11:22 AM
Surr: Toluene-d8	101	79.5-126		%REC	1	6/11/2010 12:11:22 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1006252	**Collection Date:**	
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-05	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Benzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Toluene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Ethylbenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Naphthalene	ND	2.0		µg/L	1	6/11/2010 3:25:21 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/11/2010 3:25:21 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/11/2010 3:25:21 AM
Acetone	ND	10		µg/L	1	6/11/2010 3:25:21 AM
Bromobenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Bromoform	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Bromomethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
2-Butanone	ND	10		µg/L	1	6/11/2010 3:25:21 AM
Carbon disulfide	ND	10		µg/L	1	6/11/2010 3:25:21 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Chlorobenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Chloroethane	ND	2.0		µg/L	1	6/11/2010 3:25:21 AM
Chloroform	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Chloromethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/11/2010 3:25:21 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Dibromomethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/11/2010 3:25:21 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Jun-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	1006252	**Collection Date:**	
Project:	2nd Qtr OW Wells	**Date Received:**	6/8/2010
Lab ID:	1006252-05	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	6/11/2010 3:25:21 AM
Isopropylbenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/11/2010 3:25:21 AM
Methylene Chloride	ND	3.0		µg/L	1	6/11/2010 3:25:21 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Styrene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/11/2010 3:25:21 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/11/2010 3:25:21 AM
Vinyl chloride	ND	1.0		µg/L	1	6/11/2010 3:25:21 AM
Xylenes, Total	ND	1.5		µg/L	1	6/11/2010 3:25:21 AM
Surr: 1,2-Dichloroethane-d4	87.3	54.6-141		%REC	1	6/11/2010 3:25:21 AM
Surr: 4-Bromofluorobenzene	106	60.1-133		%REC	1	6/11/2010 3:25:21 AM
Surr: Dibromofluoromethane	93.2	78.5-130		%REC	1	6/11/2010 3:25:21 AM
Surr: Toluene-d8	107	79.5-126		%REC	1	6/11/2010 3:25:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr OW Wells **Work Order:** 1006252

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 1006252-03a msd		*MSD*				Batch ID:	**R39207**	Analysis Date:		6/11/2010 2:29:57 AM	
Benzene	18.37	µg/L	1.0	20	0	91.9	75.7	118	4.32	15	
Toluene	21.54	µg/L	1.0	20	0	108	80.1	114	5.46	15	
Chlorobenzene	20.51	µg/L	1.0	20	0	103	81.5	112	0.825	15	
1,1-Dichloroethene	20.60	µg/L	1.0	20	0	103	77.4	132	7.67	17.8	
Trichloroethene (TCE)	16.90	µg/L	1.0	20	0	84.5	61.1	121	2.51	19.8	
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R39207**	Analysis Date:		6/10/2010 9:47:44 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr OW Wells **Work Order:** 1006252

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*				Batch ID: **R39207**		Analysis Date:	6/10/2010 9:47:44 AM		
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: b12		*MBLK*				Batch ID: **R39207**		Analysis Date:	6/11/2010 12:39:09 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr OW Wells **Work Order:** 1006252

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b12		*MBLK*				Batch ID: **R39207**		Analysis Date: 6/11/2010 12:39:09 AM			
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: 2nd Qtr OW Wells **Work Order:** 1006252

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b12		*MBLK*				Batch ID:	**R39207**	Analysis Date:	6/11/2010 12:39:09 AM		
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs_b		*LCS*				Batch ID:	**R39207**	Analysis Date:	6/10/2010 1:34:23 PM		
Benzene	18.86	µg/L	1.0	20	0	94.3	82.4	116			
Toluene	21.25	µg/L	1.0	20	0	106	89.5	123			
Chlorobenzene	20.72	µg/L	1.0	20	0	104	87.8	120			
1,1-Dichloroethene	20.93	µg/L	1.0	20	0	105	90.3	138			
Trichloroethene (TCE)	17.21	µg/L	1.0	20	0	86.0	64	129			
Sample ID: 100ng lcs_b		*LCS*				Batch ID:	**R39207**	Analysis Date:	6/11/2010 1:34:34 AM		
Benzene	18.66	µg/L	1.0	20	0	93.3	82.4	116			
Toluene	21.38	µg/L	1.0	20	0	107	89.5	123			
Chlorobenzene	20.36	µg/L	1.0	20	0	102	87.8	120			
1,1-Dichloroethene	21.20	µg/L	1.0	20	0	106	90.3	138			
Trichloroethene (TCE)	17.45	µg/L	1.0	20	0	87.2	64	129			
Sample ID: 1006252-03a ms		*MS*				Batch ID:	**R39207**	Analysis Date:	6/11/2010 2:02:16 AM		
Benzene	19.18	µg/L	1.0	20	0	95.9	75.7	118			
Toluene	20.40	µg/L	1.0	20	0	102	80.1	114			
Chlorobenzene	20.34	µg/L	1.0	20	0	102	81.5	112			
1,1-Dichloroethene	22.24	µg/L	1.0	20	0	111	77.4	132			
Trichloroethene (TCE)	17.33	µg/L	1.0	20	0	86.6	61.1	121			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU** Date Received: **6/8/2010**

Work Order Number **1006252** Received by: ARS

Checklist completed by: _____ 6/8/10 Sample ID labels checked by: _____

Signature Date Initials

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**0.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

_____

_____

_____

_____

Corrective Action _____

_____

_____

Chain-of-Custody Record

Client: Western Refining
Gallup Refinery
Mailing Address: Rt 3 Box 7
Gallup NM 87301
Phone #: 505 722 3833
email or Fax#: 505 722 0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: 2nd QTR OW Wells

Project #:

Project Manager: CJohnson

Sampler: CJohnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 0.3

HEAL No: 1006253

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA) 1 mt BTEX	8270 (Semi-VOA)					Air Bubbles (Y or N)
6/4/10	1430	H2O	OW-30	4-40ml	HCl	1										X						
6/7/10	0838	"	OW-14	"	"	2										X						
"	0935	"	OW-29	"	"	3										X						
"	1118	"	OW-13	"	"	4										X						
			TRep Blank			5																

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/7/10	1200				
Date:	Time:	Relinquished by:	Received by:	6/8/10	9:15

Remarks:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request